

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER Ute Tribal 01-07-E4				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BRUNDAGE CANYON				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685				
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Boise, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H624743			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Brian T. Bawden						14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-964-2678				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 3770 S 3760 W, ,						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Indian Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		2451 FNL 1754 FEL		SWNE	1	5.0 S	4.0 W	U		
Top of Uppermost Producing Zone		1930 FNL 1980 FEL		SWNE	1	5.0 S	4.0 W	U		
At Total Depth		1930 FNL 1980 FEL		SWNE	1	5.0 S	4.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1754			23. NUMBER OF ACRES IN DRILLING UNIT 707				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 3234			26. PROPOSED DEPTH MD: 7151 TVD: 7103				
27. ELEVATION - GROUND LEVEL 5951			28. BOND NUMBER LPM4138153			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342				
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	14	0 - 53	5.0	Unknown	10.0	Class G	25	1.17	15.8
Surf	12.25	8.625	0 - 493	24.0	J-55 ST&C	10.0	Class G	226	1.17	15.8
Prod	7.875	5.5	0 - 7151	15.5	J-55 LT&C	10.0	Class G	466	1.92	12.5
							Class G	490	1.46	13.4
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120			
SIGNATURE				DATE 11/06/2013			EMAIL edtrotter@easilink.com			
API NUMBER ASSIGNED 43013526560000				APPROVAL   Permit Manager						

**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

Formation		Subsea	TVD	MD
Rig KB~13' above GGL		5964	0	0
Surface Formation = Uinta				
Uinta		5951	13	13
Green River		4700	1264	1267
Trona		3328	2636	2663
Mahogany Shale		3178	2786	3959
"B" Marker	Waterflood Unit Interval	2036	3928	3974
"X" Marker		1537	4427	4475
Douglas Creek Marker		1393	4571	4619
"B" Limestone		984	4980	4928
Base Castle Peak Limestone		450	5514	5562
BSCARB		46	5918	5966
Wasatch		-239	6203	6251
Formation at TD: Wasatch	Rig TD	-1139	7103	7151

**2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:**

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	not present	6000	NA	NA
Oil/Gas	Douglas Creek	1393	4571	4619
Oil/Gas	Castle Peak	450	5514	5562

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"\*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

\*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**3. PROPOSED CASING PROGRAM:**

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	493'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	7151'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3974' MD.

**4. PROPOSED CEMENTING PROGRAM:**

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 ----- 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 ----- 493	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	226 ----- 264	30%	15.8	1.17
Production Lead	0 ----- 3974	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	466 ----- 895	30%	12.5	1.92
Production Tail	3974 ----- 7151	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	490 ----- 716	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 493' MD.



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:**

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

**BOPE TESTING PROCEDURE:**

- The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

**6. MUD PROGRAM:**

**A. SURFACE HOLE**

- The surface hole will be drilled with an air/mist system from 0' to 493'. All cutting shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
  - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
  - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
  - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
  - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.





**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**B. PRODUCTION HOLE**

- The production hole shall be drilled with a freshwater polymer system from 493' to 7151'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

**C. HAZARDOUS MATERIALS AND POLLUTANTS**

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**7. EVALUATION PROGRAM:**

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)  
Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

**8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H<sub>2</sub>S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1788 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient .

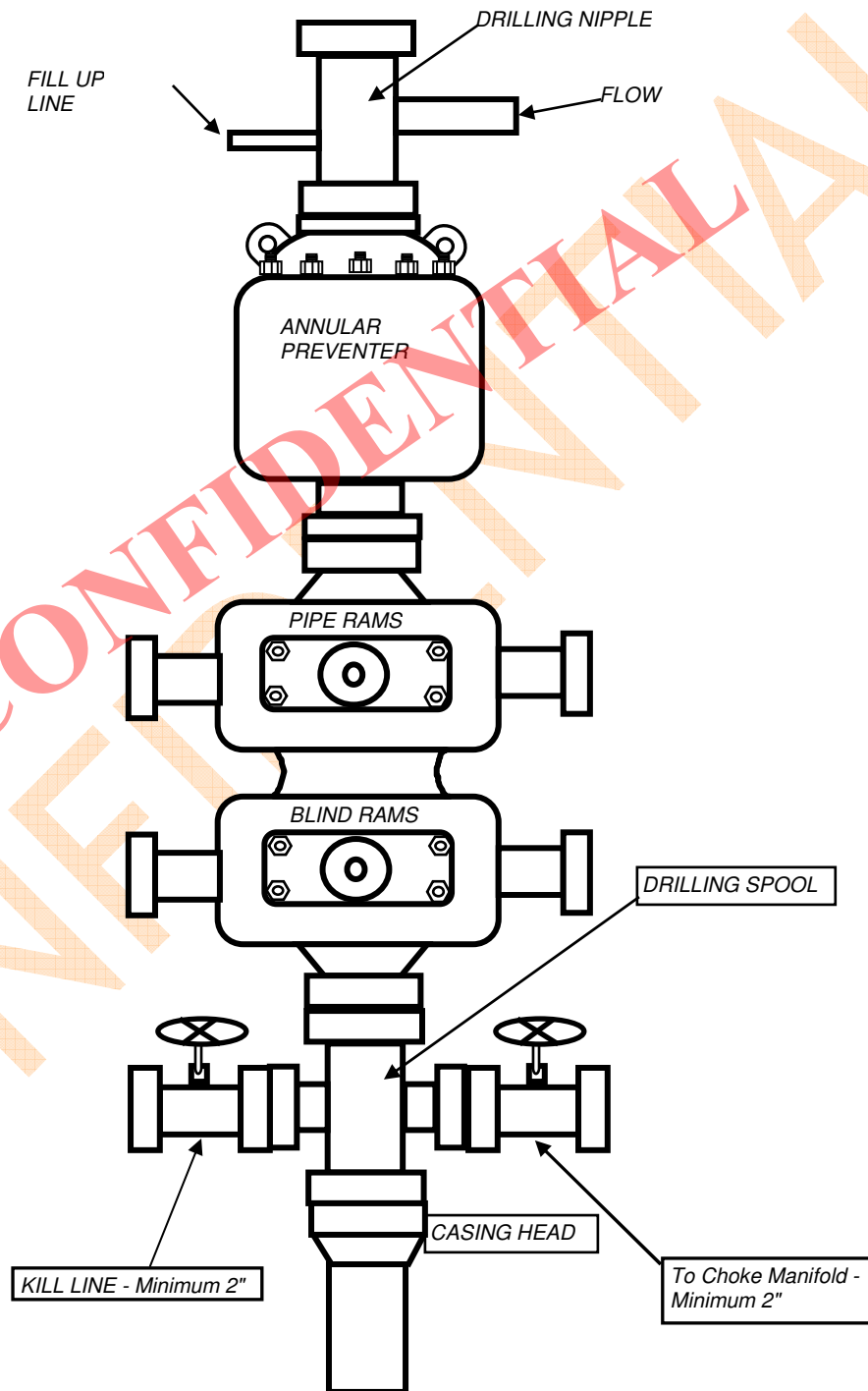
**9. DIRECTIONAL WELL PLAN:**

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3974' to 5966', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.

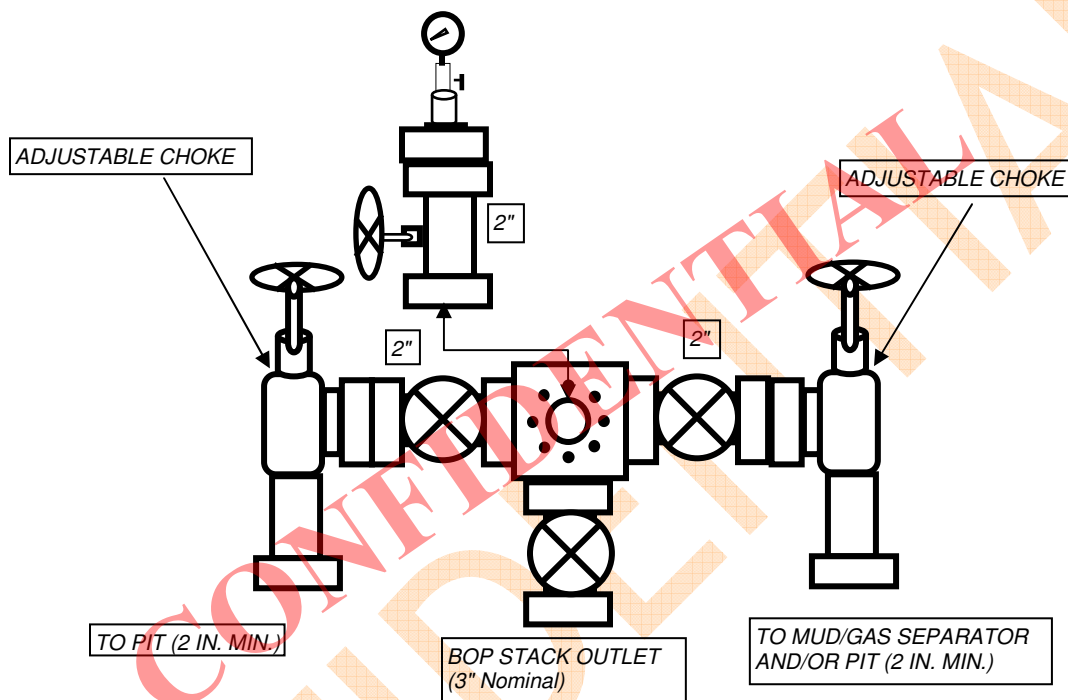


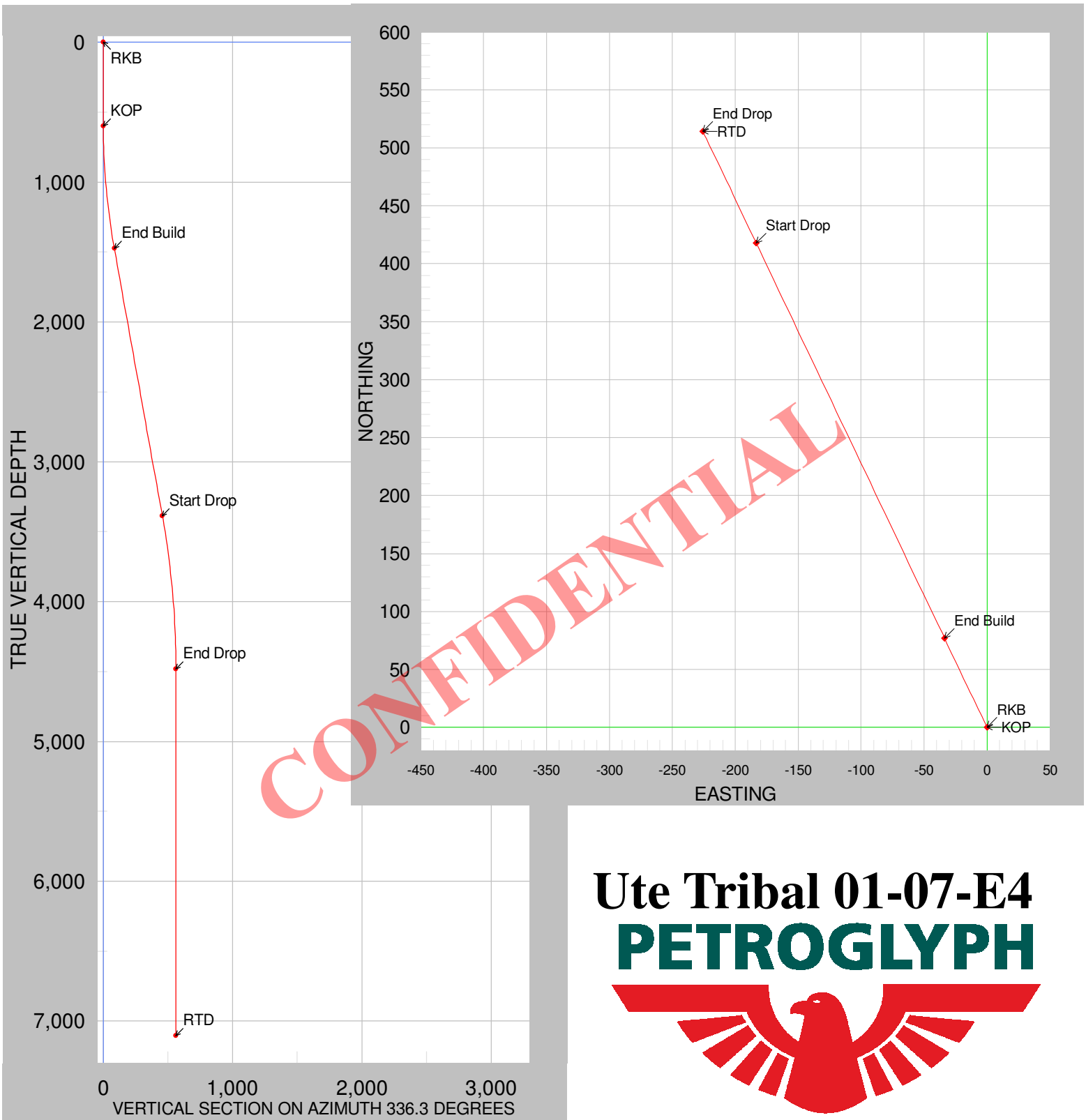
**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER**



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**  
**TYPICAL 2,000 p.s.i. CHOKE MANIFOLD**





#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1480.00	11.00	336.30	1474.60	77.11	-33.85	1.25	84.21
3	Start Drop	Tangent	3430.00	11.00	336.30	3388.78	417.81	-183.41	0.00	456.29
4	End Drop	Drop	4530.00	0.00	0.00	4482.03	514.20	-225.72	1.00	561.56
5	RTD	Vertical	7151.00	0.00	0.00	7103.03	514.20	-225.72	0.00	561.56

## 01-07-E4, Plan 1

Operator		Units		feet, %/100ft		11:57 Wednesday, November 06, 2013 Page 1 of 5			
Field		County		Duchesne		Vertical Section Azimuth 336.3			
Well Name		State		UT		Survey Calculation Method Minimum Curvature			
Plan 1		Country		USA		Database Access			
Location		SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL				MapZone		Lat Long Ref	
Site						SurfaceX		Surface Long	
Slot Name		UWI				SurfaceY		Surface Lat	
Well Number		API				Z Datum			
Project						Surface Z		Ground Level	
DIRECTIONAL WELL PLAN									
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft ft
*** RKB (at MD = 0.00)									
0.00	0.00	0.0	0.00	0.00	0.00		0.00		
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00		
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00		
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00		
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00		
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00		
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00		
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00		
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00		
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00		
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00		
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00		
*** KOP (at MD = 600.00)									
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00		
650.00	0.63	336.3	650.00	0.25	-0.11	1.25	0.27		
700.00	1.25	336.3	699.99	1.00	-0.44	1.25	1.09		
750.00	1.88	336.3	749.97	2.25	-0.99	1.25	2.45		
800.00	2.50	336.3	799.94	3.99	-1.75	1.25	4.36		
850.00	3.13	336.3	849.88	6.24	-2.74	1.25	6.82		
900.00	3.75	336.3	899.79	8.99	-3.94	1.25	9.81		
950.00	4.38	336.3	949.66	12.23	-5.37	1.25	13.36		
1000.00	5.00	336.3	999.49	15.97	-7.01	1.25	17.44		
1050.00	5.63	336.3	1049.28	20.21	-8.87	1.25	22.07		
1100.00	6.25	336.3	1099.01	24.95	-10.95	1.25	27.24		
1150.00	6.88	336.3	1148.68	30.18	-13.25	1.25	32.96		
1200.00	7.50	336.3	1198.29	35.91	-15.76	1.25	39.21		
1250.00	8.13	336.3	1247.82	42.13	-18.49	1.25	46.01		
1300.00	8.75	336.3	1297.28	48.85	-21.44	1.25	53.35		
1350.00	9.38	336.3	1346.66	56.06	-24.61	1.25	61.22		
1400.00	10.00	336.3	1395.94	63.76	-27.99	1.25	69.64		
1450.00	10.63	336.3	1445.14	71.96	-31.59	1.25	78.59		
*** END BUILD (at MD = 1480.00)									
1480.00	11.00	336.3	1474.60	77.11	-33.85	1.25	84.21		
1500.00	11.00	336.3	1494.24	80.61	-35.38	0.00	88.03		
1550.00	11.00	336.3	1543.32	89.34	-39.22	0.00	97.57		



## 01-07-E4, Plan 1

<b>Operator</b>	<b>Units</b> feet, %/100ft	11:57 Wednesday, November 06, 2013 Page 2 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 336.3
<b>Well Name</b> 01-07-E4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL	<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>	<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

## DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
1600.00	11.00	336.3	1592.40	98.08	-43.05	0.00	107.11			
1650.00	11.00	336.3	1641.48	106.81	-46.89	0.00	116.65			
1700.00	11.00	336.3	1690.56	115.55	-50.72	0.00	126.19			
1750.00	11.00	336.3	1739.64	124.29	-54.56	0.00	135.73			
1800.00	11.00	336.3	1788.72	133.02	-58.39	0.00	145.27			
1850.00	11.00	336.3	1837.81	141.76	-62.23	0.00	154.81			
1900.00	11.00	336.3	1886.89	150.49	-66.06	0.00	164.35			
1950.00	11.00	336.3	1935.97	159.23	-69.90	0.00	173.90			
2000.00	11.00	336.3	1985.05	167.97	-73.73	0.00	183.44			
2050.00	11.00	336.3	2034.13	176.70	-77.57	0.00	192.98			
2100.00	11.00	336.3	2083.21	185.44	-81.40	0.00	202.52			
2150.00	11.00	336.3	2132.29	194.17	-85.24	0.00	212.06			
2200.00	11.00	336.3	2181.38	202.91	-89.07	0.00	221.60			
2250.00	11.00	336.3	2230.46	211.64	-92.91	0.00	231.14			
2300.00	11.00	336.3	2279.54	220.38	-96.74	0.00	240.68			
2350.00	11.00	336.3	2328.62	229.12	-100.57	0.00	250.22			
2400.00	11.00	336.3	2377.70	237.85	-104.41	0.00	259.76			
2450.00	11.00	336.3	2426.78	246.59	-108.24	0.00	269.30			
2500.00	11.00	336.3	2475.86	255.32	-112.08	0.00	278.84			
2550.00	11.00	336.3	2524.95	264.06	-115.91	0.00	288.38			
2600.00	11.00	336.3	2574.03	272.80	-119.75	0.00	297.92			
2650.00	11.00	336.3	2623.11	281.53	-123.58	0.00	307.46			
2700.00	11.00	336.3	2672.19	290.27	-127.42	0.00	317.00			
2750.00	11.00	336.3	2721.27	299.00	-131.25	0.00	326.54			
2800.00	11.00	336.3	2770.35	307.74	-135.09	0.00	336.08			
2850.00	11.00	336.3	2819.43	316.47	-138.92	0.00	345.62			
2900.00	11.00	336.3	2868.51	325.21	-142.76	0.00	355.16			
2950.00	11.00	336.3	2917.60	333.95	-146.59	0.00	364.70			
3000.00	11.00	336.3	2966.68	342.68	-150.43	0.00	374.24			
3050.00	11.00	336.3	3015.76	351.42	-154.26	0.00	383.78			
3100.00	11.00	336.3	3064.84	360.15	-158.10	0.00	393.33			
3150.00	11.00	336.3	3113.92	368.89	-161.93	0.00	402.87			
3200.00	11.00	336.3	3163.00	377.63	-165.77	0.00	412.41			
3250.00	11.00	336.3	3212.08	386.36	-169.60	0.00	421.95			
3300.00	11.00	336.3	3261.17	395.10	-173.44	0.00	431.49			

**01-07-E4, Plan 1**

Operator		Units		feet, %/100ft		11:57 Wednesday, November 06, 2013 Page 3 of 5			
Field		County		Duchesne		Vertical Section Azimuth 336.3			
Well Name		State		UT		Survey Calculation Method Minimum Curvature			
Plan 1		Country		USA		Database Access			
Location		SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL				MapZone		Lat Long Ref	
Site						SurfaceX		Surface Long	
Slot Name		UWI				SurfaceY		Surface Lat	
Well Number		API				Z Datum			
Project						Surface Z		Ground Level	
DIRECTIONAL WELL PLAN									
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft ft
3350.00	11.00	336.3	3310.25	403.83	-177.27	0.00	441.03		
3400.00	11.00	336.3	3359.33	412.57	-181.10	0.00	450.57		
*** START DROP (at MD = 3430.00)									
3430.00	11.00	336.3	3388.78	417.81	-183.41	0.00	456.29		
3450.00	10.80	336.3	3408.42	421.27	-184.93	1.00	460.07		
3500.00	10.30	336.3	3457.57	429.66	-188.61	1.00	469.23		
3550.00	9.80	336.3	3506.80	437.64	-192.11	1.00	477.95		
3600.00	9.30	336.3	3556.11	445.24	-195.45	1.00	486.25		
3650.00	8.80	336.3	3605.49	452.44	-198.61	1.00	494.11		
3700.00	8.30	336.3	3654.93	459.25	-201.60	1.00	501.55		
3750.00	7.80	336.3	3704.44	465.66	-204.41	1.00	508.55		
3800.00	7.30	336.3	3754.01	471.68	-207.05	1.00	515.12		
3850.00	6.80	336.3	3803.63	477.29	-209.52	1.00	521.26		
3900.00	6.30	336.3	3853.30	482.52	-211.81	1.00	526.96		
3950.00	5.80	336.3	3903.02	487.34	-213.93	1.00	532.23		
4000.00	5.30	336.3	3952.79	491.77	-215.87	1.00	537.07		
4050.00	4.80	336.3	4002.59	495.80	-217.64	1.00	541.47		
4100.00	4.30	336.3	4052.44	499.43	-219.24	1.00	545.43		
4150.00	3.80	336.3	4102.31	502.67	-220.65	1.00	548.96		
4200.00	3.30	336.3	4152.21	505.50	-221.90	1.00	552.06		
4250.00	2.80	336.3	4202.14	507.94	-222.97	1.00	554.72		
4300.00	2.30	336.3	4252.09	509.97	-223.86	1.00	556.95		
4350.00	1.80	336.3	4302.06	511.61	-224.58	1.00	558.73		
4400.00	1.30	336.3	4352.04	512.85	-225.13	1.00	560.09		
4450.00	0.80	336.3	4402.03	513.69	-225.49	1.00	561.00		
4500.00	0.30	336.3	4452.03	514.13	-225.69	1.00	561.48		
*** END DROP (at MD = 4530.00)									
4530.00	0.00	0.0	4482.03	514.20	-225.72	1.00	561.56		
4550.00	0.00	0.0	4502.03	514.20	-225.72	0.00	561.56		
4600.00	0.00	0.0	4552.03	514.20	-225.72	0.00	561.56		
4650.00	0.00	0.0	4602.03	514.20	-225.72	0.00	561.56		
4700.00	0.00	0.0	4652.03	514.20	-225.72	0.00	561.56		
4750.00	0.00	0.0	4702.03	514.20	-225.72	0.00	561.56		
4800.00	0.00	0.0	4752.03	514.20	-225.72	0.00	561.56		
4850.00	0.00	0.0	4802.03	514.20	-225.72	0.00	561.56		

## 01-07-E4, Plan 1

<b>Operator</b>	<b>Units</b> feet, %/100ft	11:57 Wednesday, November 06, 2013 Page 4 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 336.3
<b>Well Name</b> 01-07-E4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL	<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>	<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

## DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
4900.00	0.00	0.0	4852.03	514.20	-225.72	0.00	561.56			
4950.00	0.00	0.0	4902.03	514.20	-225.72	0.00	561.56			
5000.00	0.00	0.0	4952.03	514.20	-225.72	0.00	561.56			
5050.00	0.00	0.0	5002.03	514.20	-225.72	0.00	561.56			
5100.00	0.00	0.0	5052.03	514.20	-225.72	0.00	561.56			
5150.00	0.00	0.0	5102.03	514.20	-225.72	0.00	561.56			
5200.00	0.00	0.0	5152.03	514.20	-225.72	0.00	561.56			
5250.00	0.00	0.0	5202.03	514.20	-225.72	0.00	561.56			
5300.00	0.00	0.0	5252.03	514.20	-225.72	0.00	561.56			
5350.00	0.00	0.0	5302.03	514.20	-225.72	0.00	561.56			
5400.00	0.00	0.0	5352.03	514.20	-225.72	0.00	561.56			
5450.00	0.00	0.0	5402.03	514.20	-225.72	0.00	561.56			
5500.00	0.00	0.0	5452.03	514.20	-225.72	0.00	561.56			
5550.00	0.00	0.0	5502.03	514.20	-225.72	0.00	561.56			
5600.00	0.00	0.0	5552.03	514.20	-225.72	0.00	561.56			
5650.00	0.00	0.0	5602.03	514.20	-225.72	0.00	561.56			
5700.00	0.00	0.0	5652.03	514.20	-225.72	0.00	561.56			
5750.00	0.00	0.0	5702.03	514.20	-225.72	0.00	561.56			
5800.00	0.00	0.0	5752.03	514.20	-225.72	0.00	561.56			
5850.00	0.00	0.0	5802.03	514.20	-225.72	0.00	561.56			
5900.00	0.00	0.0	5852.03	514.20	-225.72	0.00	561.56			
5950.00	0.00	0.0	5902.03	514.20	-225.72	0.00	561.56			
6000.00	0.00	0.0	5952.03	514.20	-225.72	0.00	561.56			
6050.00	0.00	0.0	6002.03	514.20	-225.72	0.00	561.56			
6100.00	0.00	0.0	6052.03	514.20	-225.72	0.00	561.56			
6150.00	0.00	0.0	6102.03	514.20	-225.72	0.00	561.56			
6200.00	0.00	0.0	6152.03	514.20	-225.72	0.00	561.56			
6250.00	0.00	0.0	6202.03	514.20	-225.72	0.00	561.56			
6300.00	0.00	0.0	6252.03	514.20	-225.72	0.00	561.56			
6350.00	0.00	0.0	6302.03	514.20	-225.72	0.00	561.56			
6400.00	0.00	0.0	6352.03	514.20	-225.72	0.00	561.56			
6450.00	0.00	0.0	6402.03	514.20	-225.72	0.00	561.56			
6500.00	0.00	0.0	6452.03	514.20	-225.72	0.00	561.56			
6550.00	0.00	0.0	6502.03	514.20	-225.72	0.00	561.56			
6600.00	0.00	0.0	6552.03	514.20	-225.72	0.00	561.56			

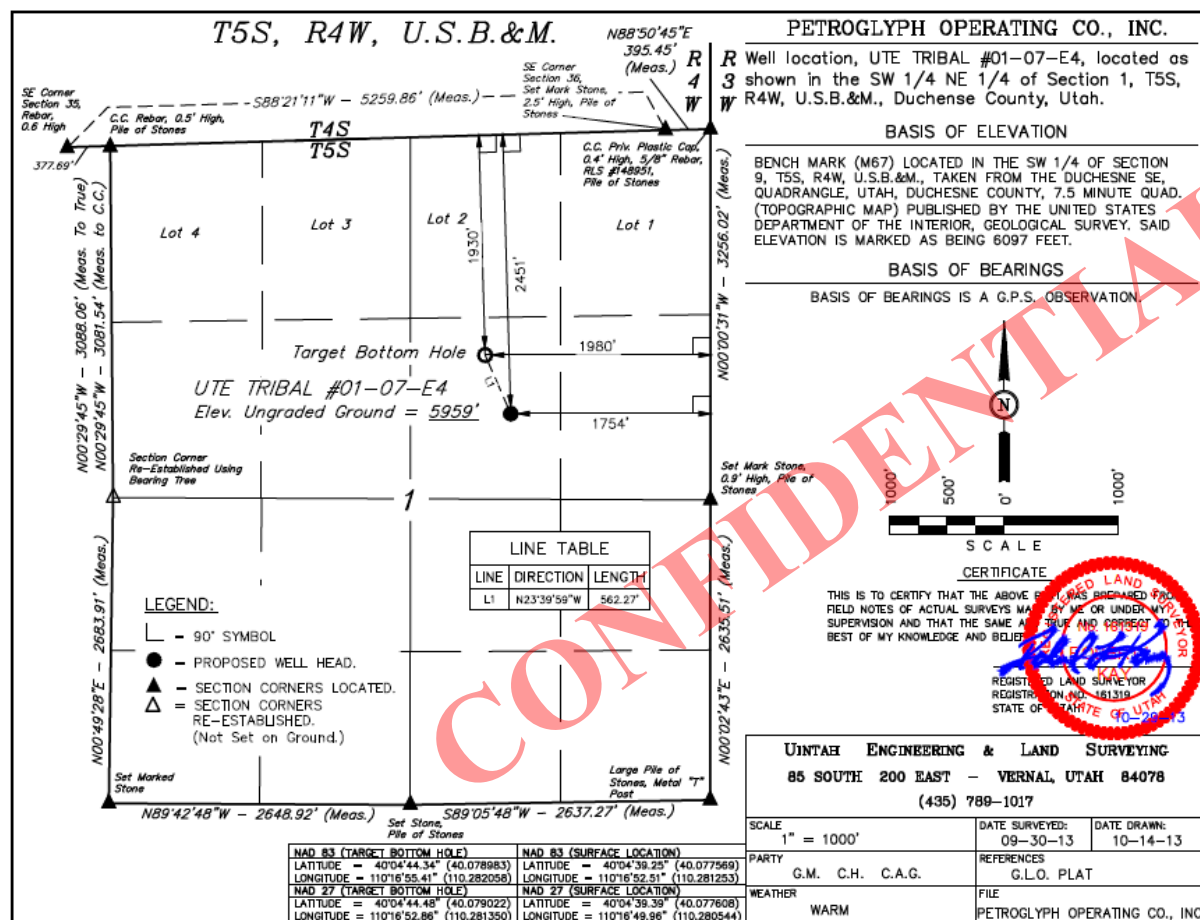
**01-07-E4, Plan 1**

<b>Operator</b>		<b>Units</b>	feet, %/100ft	11:57 Wednesday, November 06, 2013	Page 5 of 5
<b>Field</b>		<b>County</b>	Duchesne	<b>Vertical Section Azimuth</b>	336.3
<b>Well Name</b>	01-07-E4	<b>State</b>	UT	<b>Survey Calculation Method</b>	Minimum Curvature
<b>Plan</b>	1	<b>Country</b>	USA	<b>Database</b>	Access

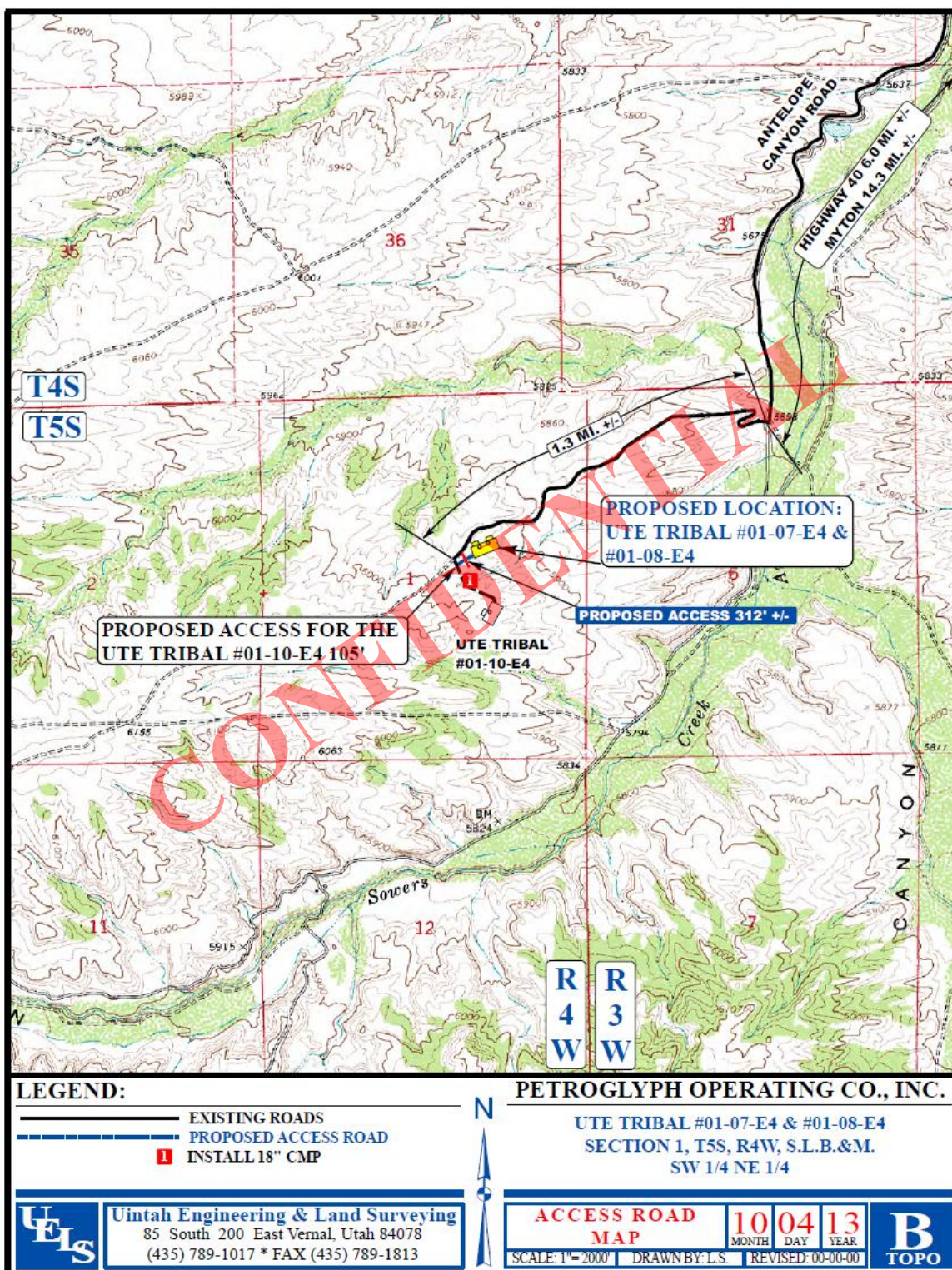
<b>Location</b>	SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL			<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>				<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>		<b>UWI</b>		<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>		<b>API</b>		<b>Z Datum</b>	
<b>Project</b>				<b>Surface Z</b>	<b>Ground Level</b>

**DIRECTIONAL WELL PLAN**

<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6650.00	0.00	0.0	6602.03	514.20	-225.72	0.00	561.56			
6700.00	0.00	0.0	6652.03	514.20	-225.72	0.00	561.56			
6750.00	0.00	0.0	6702.03	514.20	-225.72	0.00	561.56			
6800.00	0.00	0.0	6752.03	514.20	-225.72	0.00	561.56			
6850.00	0.00	0.0	6802.03	514.20	-225.72	0.00	561.56			
6900.00	0.00	0.0	6852.03	514.20	-225.72	0.00	561.56			
6950.00	0.00	0.0	6902.03	514.20	-225.72	0.00	561.56			
7000.00	0.00	0.0	6952.03	514.20	-225.72	0.00	561.56			
7050.00	0.00	0.0	7002.03	514.20	-225.72	0.00	561.56			
7100.00	0.00	0.0	7052.03	514.20	-225.72	0.00	561.56			
7150.00	0.00	0.0	7102.03	514.20	-225.72	0.00	561.56			
*** RTD (at MD = 7151.00)										
7151.00	0.00	0.0	7103.03	514.20	-225.72	0.00	561.56			









# MEMORANDUM OF SURFACE USE AND RIGHT-OF-WAY AGREEMENT

THIS MEMORANDUM WITNESSES:

THAT on the 16th day of June, 1997, between LEE H MOON AND KATHY MOON, husband and wife, , whose address is East Old Highway 40, Duchesne, Utah 84021 (GRANTOR), in consideration of the covenants and agreements contained in that certain Surface Use and Right-Of-Way Agreement dated JUNE 25<sup>th</sup> 1997 (the "Agreement"), has granted and conveyed, and by these presents does hereby grant and convey to PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61, P.O. Box 1839, Hutchinson, Kansas 67502 (GRANTEE), certain rights of surface use, rights-of-way, and easements for the exploration, development, production, and transportation of oil and gas in, on, over, through and across certain real property owned by GRANTOR and situated in the County of Duchesne, State of Utah, and more particularly described as follows:

## Township 4 South - Range 4 West USM

Section 24: All

Section 25: All

Section 26: All

Section 35: All

Section 36: All

## Township 4 South - Range 3 West USM

Section 19: All

Section 28: N/2 SW/4, NW/4 SE/4

Section 29: NE/4 SE/4

Section 32: All less NW/4 NW/4

## Township 5 South - Range 4 West USM

Section 1: All

Containing 5,289.65 acres, more or less.

E 320858 B AD280 P 251  
DATE 1-JUL-1997 16:24PM FEE 22.00  
CAROLYN B. MADSEN, RECORDER  
FILED BY CRY  
FOR ED TROTTER  
DUCESNE COUNTY CORPORATION

Said rights and uses are granted upon and subject to all of the terms and conditions set forth in the Agreement, executed by GRANTOR and GRANTEE, which Agreement is held by and can be inspected by parties having a vested interest in the Agreement and/or subject property during reasonable business hours at the offices of GRANTOR or GRANTEE. Such uses, rights-of-way and easements are granted for the full period of development of and the production life of any of the wells, appurtenances and facilities associated therewith.

IN WITNESS WHEREOF, this Memorandum has been duly executed this 25<sup>th</sup> day of JUNE, 1997.

GRANTOR LEE H MOON AND KATHY MOON

By: Lee H Moon

By: Kathy Moon

GRANTEE PETROGLYPH OPERATING COMPANY, INC.

By: Ed L. Statter  
Its Agent

ACKNOWLEDGMENTS

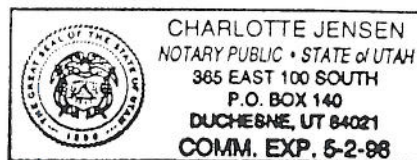
STATE OF UTAH )  
: ss.  
COUNTY OF DUCHESNE )

The foregoing instrument was acknowledged before me this 25<sup>th</sup> day of June, 1997 by LEE H MOON AND KATHY MOON, husband and wife.

Charlotte Jensen  
Notary Public  
Residing in: Duchesne, UT

Commission Expires:

5-2-98



ACKNOWLEDGMENT

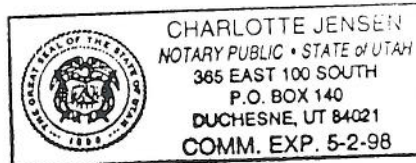
STATE OF UTAH )  
: ss.  
COUNTY OF DUCHESNE )  
~~SALT LAKE~~

The foregoing instrument was acknowledged before me this 25<sup>th</sup> day of June, 1997 by Ed L. Statter, the Agent of PETROGLYPH OPERATING COMPANY, INC.

Charlotte Jensen  
Notary Public  
Residing in: Duchesne, UT

My Commission Expires:

5-2-98



## SURFACE USE AND RIGHT-OF-WAY AGREEMENT

Agreement entered into this June 25, 1997 by and between LEE H. MOON AND KATHY MOON, husband and wife, , whose address is East Old Highway 40, Duchesne, Utah 84021 (hereinafter "GRANTOR") and PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61, P.O. Box 1839, Hutchinson, Kansas 67502, (hereinafter "PETROGLYPH");

### RECITALS

A. GRANTOR is the owner of all or a portion of the surface estate of lands located in Duchesne County, Utah, and more particularly described as:

#### Township 4 South - Range 4 West USM

Section 24: All  
Section 25: All  
Section 26: All  
Section 35: All  
Section 36: All

#### Township 4 South - Range 3 West USM

Section 19: All  
Section 28: N/2 SW/4, NW/4 SE/4  
Section 29: NE/4 SE/4  
Section 32: All less NW/4 NW/4

#### Township 5 South - Range 4 West USM

Section 1: All

Containing 5,289.65 acres, more or less.

Said lands are hereinafter referred to as the "Subject Lands";

B. GRANTOR or GRANTOR's predecessors acquired all or part of the surface estate of the Subject Lands from the Ute Indian Tribe pursuant to 1) the Act of June 18, 1934, (48 Stat. 984), 2) the Act of March 11, 1948 (62 Stat. 72), or 3) from the United States under certain of the private entry and homestead Acts;

C. PETROGLYPH is in the business of exploring for, developing, and producing oil and gas deposits;

D. PETROGLYPH is the lessee of and/or owns the operating rights in numerous Indian and other oil and gas leases covering a portion of the Subject Lands and/or other lands in Duchesne County;

E. A map depicting the Subject Lands and surrounding lands is attached hereto as Exhibit "A," which by this reference is incorporated herein;



F. PETROGLYPH anticipates increased operations for the development and enhanced recovery of oil and gas reserves within and in proximity to the Subject Lands. These operations require access to and rights-of-way on and over and use of the Subject Lands and the construction, maintenance and operation of well sites, power lines, natural gas delivery systems, pipelines, compressor stations and appurtenances; and

G. PETROGLYPH has permitted or is in the process of permitting the drilling, production and enhanced recovery of oil and gas wells located on the Subject Lands, and/or on other lands in Duchesne County.

NOW THEREFORE, FOR AND IN CONSIDERATION OF TEN DOLLARS (\$10.00) PAID AND THE PAYMENTS AND THE TERMS AND CONDITIONS AND COVENANTS PROVIDED HEREIN, GRANTOR grants and conveys to PETROGLYPH, its successors and assigns, easements and the right to use and occupy those portions of the Subject Lands as may be necessary (a) for oil and gas exploration, including, but not limited to, the placement of seismic lines and other exploration activities, (b) to conduct its drilling and production operations on said property, including the right to construct and maintain, rework, replace, and operate oil and gas well sites, and enhanced oil and gas recovery operations (c) to construct, entrench, maintain, operate, replace, remove, and protect pipelines for water, oil or gas with appurtenances thereto, including, but not limited to, valves, compressors, metering equipment, and cathodic equipment, (d) to construct, maintain or cover up any pits or ponds necessary for drilling operations or water storage, (e) to erect, maintain, relocate, replace or remove production Facilities, including, but not limited to, pumps, compressors, separators and treaters, and (f) to construct, maintain, relocate, or abandon roads, and in connection therewith, power and communication lines (said well sites, pipelines, appurtenances, valves, metering equipment, cathodic equipment, road and power lines being sometimes collectively called the "Facilities") in, on, over, under and through the Subject Lands to the extent of GRANTOR's ownership therein.

PETROGLYPH shall have the free right of ingress and egress in, on, over, upon, through and across said rights-of-way and easements for any and all purposes that may be necessary or incidental to the maintenance of the right-of-ways and easements with the right to use existing roads which enter GRANTOR's property for the purpose of constructing, inspecting, repairing and maintaining the Facilities and the removal or replacement of same at will, either in whole or in part, and the replacement of said pipelines with either like or different size pipe. During temporary periods, PETROGLYPH may use such portions of the property along and adjacent to said rights-of-way as may be necessary in connection with construction, maintenance, repair, removal or replacement of the Facilities and if such use causes any damages to GRANTOR's lands outside of the above described rights-of-way, PETROGLYPH shall pay GRANTOR for such damages in accordance with the provisions of the Agreement.

Where economically feasible and reasonable, PETROGLYPH will utilize a "development corridor" right-of-way approach in its development operations. PETROGLYPH is to limit disturbance to that land reasonably necessary for well drilling, development, and subsequent on-site operations and to a width no greater than 60 feet for roads and pipeline corridors.

PETROGLYPH to have and hold the above described rights and easements, together with all rights necessary to operate and maintain the Facilities from the date of written notice to GRANTOR in the form as set forth in Exhibit "B" for the term, under the conditions and for the consideration as set forth herein until such time as such rights-of-way and easements are abandoned or terminated under the terms provided herein. When PETROGLYPH intends to use and occupy any portion of the Subject Lands owned by the GRANTOR, PETROGLYPH shall give the GRANTOR written notice of surface use and easement using the form attached hereto as Exhibit "B", together with payment for the additional rights in accordance with the compensation provisions as provided below. Upon receipt of such notice, GRANTOR shall have seven (7) days within which to review the proposed surface use and notify PETROGLYPH of any objections regarding location or other concerns and offer specific reasonable alternatives or modifications to the location or other concern. PETROGLYPH will consider such alternatives and, if deemed to be reasonable and practical under the particular circumstances, will



accommodate GRANTOR by modifying its place of surface use in whole or in part accordingly. PETROGLYPH agrees in the conduct of its operations upon the Subject Property to the following:

- (a) To construct the rights-of-way, drill pads and other Facilities in a prompt and workmanlike manner;
- (b) To stockpile and replace top soil and take other reasonable soil and resource conservation and protection measures on the lands covered by the rights-of-way and surface use locations and Facilities;
- (c) To take reasonable precautions to prevent fires on the lands covered by the rights-of-way and surface use locations and Facilities;
- (d) To rebuild and/or repair any road, gates, fences, or other appurtenances or improvements as may be destroyed or damaged by PETROGLYPH's activities and to build and maintain necessary and suitable crossing and drainage structures, install cattle guards with offset gates for all roads and ways that intersect the works constructed, maintained, or operated under the rights-of-way, surface use locations, and Facilities. Fence gates installed shall be of steel construction (Powder River type). Any fences installed by the GRANTOR, which cross roads granted hereunder, shall have installed, at GRANTOR's discretion, cattle guards with offset gates. Cattle guards and fence gates shall be of steel construction (Powder River type). PETROGLYPH shall have the option of supplying the gates and cattle guards, or reimbursing GRANTOR for the actual costs thereof. PETROGLYPH will grade, level and reseed areas disturbed but not used for roads or Facilities and Well Sites.
- (e) To take reasonable steps to minimize dust from vehicular use on the roads constructed hereunder;
- (f) To post "no trespassing" or other appropriate signs notifying the public that the road right-of-way and subject Property are privately owned. Such sign shall be conspicuously posted on any new roads constructed by PETROGLYPH hereunder;
- (g) To control the growth and spread of noxious weeds on and from the rights-of-way, drill pads, and other areas of the Subject Lands disturbed by PETROGLYPH. For the purposes of this Agreement, noxious weeds shall be those plants listed currently and from time-to-time on the Utah Weed Control List prepared by the Utah Department of Agriculture.

PETROGLYPH may assign the rights and easements herein granted, either in whole or in part, subject to the terms of this grant and Agreement, and such rights and easements shall be covenants running with the land and be binding upon GRANTOR, GRANTOR's heirs, assigns, legal representatives and successors in title. Upon abandonment of any of the rights-of-way or easements granted hereunder, at the request of the GRANTOR, PETROGLYPH shall execute and deliver to GRANTOR a document in recordable form evidencing said abandonment.

As full payment and compensation for the rights and easements conveyed and granted and to be conveyed and granted hereunder, including any amounts for damage to growing crops, timber and other vegetation, PETROGLYPH shall remit to the GRANTOR, in conjunction with delivery of notices of surface use and easement, payments equal to Five Hundred Dollars (\$500.00) per acre, or two (2) times the market value per acre, whichever is greater (not to exceed One Thousand Dollars (\$ 1000.00) per acre), of the lands disturbed or made subject to the uses and easement stated in the notice. Said market value shall be based upon the market value established and maintained by the Duchesne County Assessor for the property subject to the use and/or easement. GRANTOR accepts such payments in full and complete payment, settlement, compromise and satisfaction of any and all losses, liabilities, claims, damages, demands and causes of action relating to any and all injuries and damages to the surface of the land with the exception of PETROGLYPH's duty to reclaim upon abandonment of any of the easements or uses granted herein or upon termination of this Agreement.



GRANTOR reserves the right to the use and enjoyment of the Subject Land except for the purposes herein granted, but such use shall not hinder, conflict, or interfere with PETROGLYPH's surface or sub-surface rights or disturb its Facilities and operations. No road, reservoir, excavation, obstruction or structure shall be constructed, created or maintained on, over, along or within the lands occupied by any Facilities by GRANTOR or with GRANTOR's consent or acquiescence without PETROGLYPH's prior written consent, which consent shall not be unreasonably withheld.

GRANTOR hereby covenants and warrants that it is the surface owner of all of or an undivided interest in the Subject Lands, and has the legal right and authority to enter into this Agreement and grant the rights granted herein.

If, at any time during the term of this Agreement, PETROGLYPH determines that GRANTOR owns all or any portion of the mineral estate underlying the Subject Lands and that all or any portion of that mineral estate are not leased for oil, gas, and other hydrocarbons, GRANTOR agrees to lease same to PETROGLYPH on the following terms and conditions:

- (a) A three (3) year primary term and so long thereafter as there is production in paying quantities;
- (b) annual rentals of \$2.00 per net mineral acre paid up at signing; and
- (c) royalty of 16-2/3%
- (d) PETROGLYPH will provide GRANTOR, at the time of the signing of the oil and gas lease, a copy of a minerals status report identifying the minerals interest owned by GRANTOR.

The rights-of-way, easements, and surface uses granted herein are and will be issued for the full period of development and the production life of the wells, appurtenances and Facilities associated therewith, including reworking and enhanced recovery operations and resultant production. Any right-of-way that is not used for a continuous period of three years shall be deemed abandoned and terminated and shall be reclaimed as herein agreed. In the event PETROGLYPH does not exercise the rights granted herein as to any government surveyed Section (constituting 640 acres, more or less) of the subject Lands (or such smaller portion within any section if GRANTOR does not own all of the surface of such Section) for a period of ten (10) years from the date of this Agreement, this Agreement shall terminate as to that government Section or part thereof.

PETROGLYPH, its successors and assigns, shall at all times exercise reasonable care in its exploration, drilling, completion and production operations to avoid the spilling, improper disposal or release of pollutants, hazardous substances and hazardous waste in, on or under the GRANTOR's property and to comply with all relevant and applicable federal, state and local statutes and regulations, including, but not limited to, all environmental laws now in force and hereinafter enacted.

Upon the termination of this Agreement, the end of the production life of any well or abandonment of any Facilities installed, PETROGLYPH shall have the right of access to the captioned lands in order to restore such well-site, right-of-way or other surface disturbance to the approximate condition it was in prior to commencement of such surface use, so far as is reasonably possible. All reclamation shall be at the sole expense of PETROGLYPH. Said reclamation work and abandonment and plugging of wells shall be done in accordance with federal, state, county, or local laws and regulations in force at such time.

In the event of PETROGLYPH's failure to comply with any material provisions of this Agreement, GRANTOR shall provide PETROGLYPH with notice setting forth the nature of such non-compliance. If the non-



compliance relates to the payment of money as set forth herein, PETROGLYPH shall have thirty (30) days following receipt of such notice to cure such non-compliance. If the non-compliance relates to matters other than the payment of money, PETROGLYPH shall have sixty (60) days to commence, and to pursue diligently to completion, appropriate action to cure the non-compliance. In the event that PETROGLYPH fails to cure, or to commence appropriate action to cure the non-compliance within the prescribed period, GRANTOR may thereupon terminate this Agreement by giving PETROGLYPH 15 days written notice to that effect. Such termination shall not affect prior rights and easements granted PETROGLYPH, its predecessors, successors or assigns under this Agreement or under prior grants, conveyances, or Agreements. In the event of a dispute over compliance or performance under this Agreement, such dispute shall not be grounds for interruption of the performance under this Agreement by either party, nor will PETROGLYPH's operations hereunder be interrupted, delayed, or impaired during the pendency of such dispute. The parties agree to attempt to settle expeditiously all dispute(s) and objection(s) under this Agreement by mediation under the Commercial Mediation Rules of the American Arbitration Association, before resulting to arbitration. If the parties are unable by mediation to resolve or settle the dispute(s) or objection(s), the parties agree to submit such dispute(s) or objection(s) to binding arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association in effect at the time of arbitration.

If PETROGLYPH is delayed or interrupted in or prevented from performing any acts or obligations provided in this Agreement by acts of God, fires, weather, floods, strikes or labor troubles, breakage of machinery, inability to obtain necessary materials, supplies or labor, interruptions in delivery or transportation, insurrection or mob violence, injunction, regulations or order or requirement of Government or other disabling cause beyond its reasonable control, then and in all such cases PETROGLYPH shall, for the time being and without liability, be excused from performance of such acts or obligations during the period of such prevention, delay or disability. This Agreement and all provisions hereof shall again come into full force and effect immediately upon termination of the period of prevention, delay or disability resulting from any of the causes aforesaid. PETROGLYPH shall give GRANTOR prompt written notice of any periods of such delay or prevention together with the reason or reasons for same. Following termination of such prevention or delay, PETROGLYPH shall give prompt written notice of same to GRANTOR.

All notices under this Agreement shall be given in writing and shall be sent (a) certified mail, return receipt requested, or (b) by Federal Express, or similar overnight carrier service, to the parties at the addresses provided on page 1 of this Agreement. Notices shall be deemed effective when received. Any party may change its address for receipt of notices by sending notice of the change to the other party as provided for in this paragraph.

This Agreement and the grants and conveyances hereunder shall be binding upon the parties and their respective heirs, executors, administrators, successors and assigns. All representations, warrantys, terms, conditions and covenants contained in this Agreement shall survive execution of this Agreement and remain in full force and effect and binding on the parties. This Agreement and all rights and interests granted hereunder or pursuant hereto shall be governed by and construed in accordance with the laws of the State of Utah.

Upon execution of this Agreement, the parties agree to execute and record in the office of the Duchesne County Recorder, a Memorandum of Surface Use and Right-Of-Way Agreement sufficient to provide third parties with notice of the Agreement.

Time is of the essence in the performance of this Agreement and each and every term, covenant and obligation herein.

This Agreement and its Exhibits constitute the final written expression of the Agreement between PETROGLYPH and GRANTOR, which Agreement may not be modified except by writing signed by both PETROGLYPH and GRANTOR.

GRANTOR LEE H. MOON AND KATHY MOON

By: Lee H Moon

By: Kathy Moon

GRANTEE PETROGLYPH OPERATING COMPANY, INC.

By: Ed Grotter  
Its: Agent

ACKNOWLEDGMENT

STATE OF UTAH )  
 ) ss.  
COUNTY OF DUCHESNE )

The foregoing instrument was acknowledged before me this 25<sup>th</sup> day of June, 1997, by LEE H. MOON AND KATHY MOON, husband and wife.

Charlotte Jensen  
Notary Public  
Residing in: Duchesne, UT

My Commission Expires:  
5-2-98

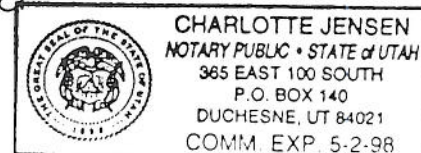
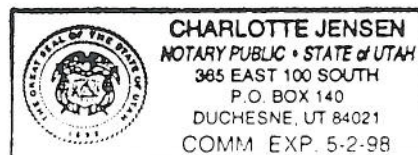
ACKNOWLEDGMENT

STATE OF UTAH )  
 ) ss.  
COUNTY OF DUCHESNE )

The foregoing instrument was acknowledged before me this 25<sup>th</sup> day of June, 1997, by Ed Grotter, the Agent of PETROGLYPH OPERATING COMPANY, INC.

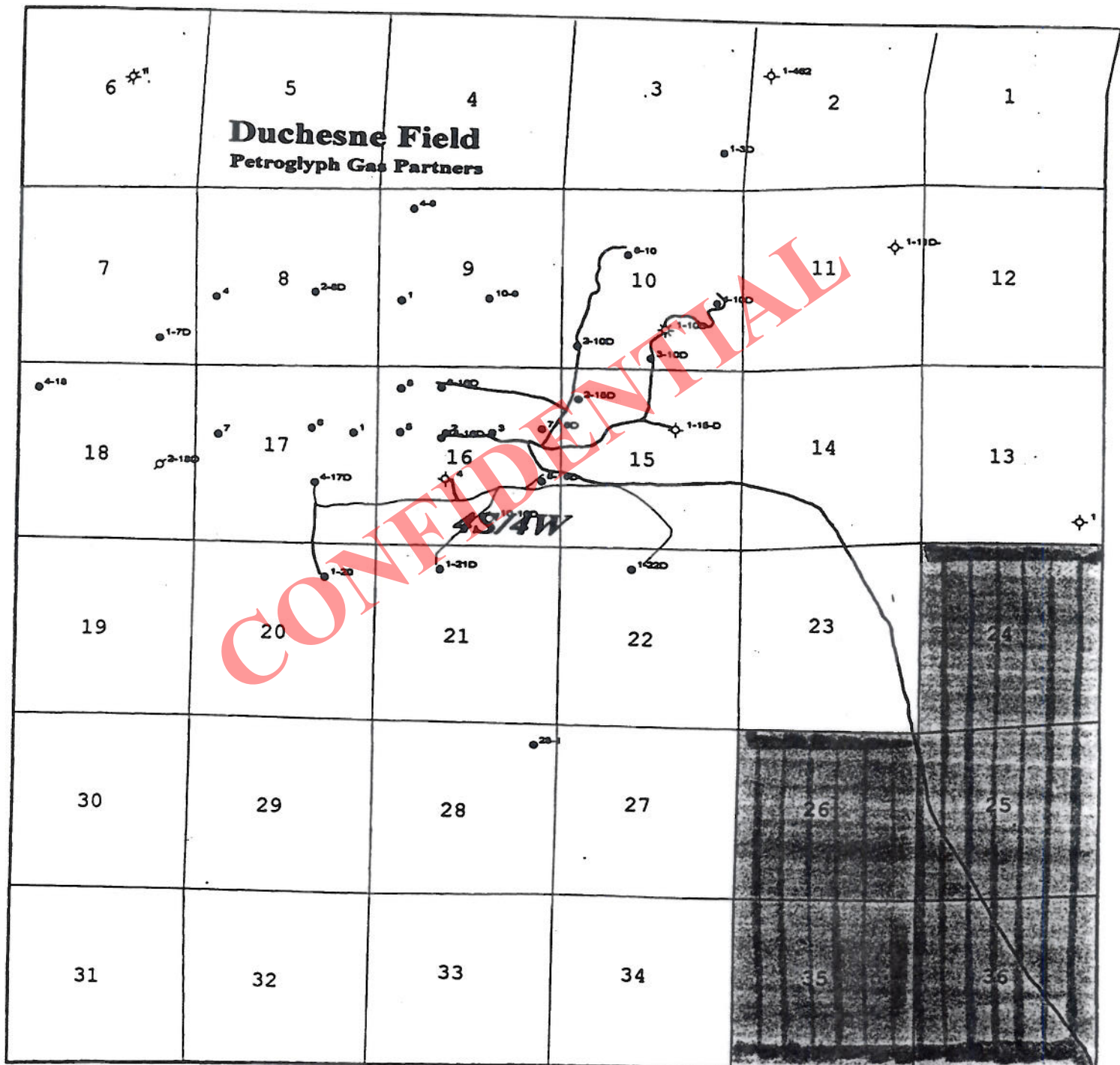
Charlotte Jensen  
Notary Public  
Residing in: Duchesne, UT

My Commission Expires:  
5-2-98

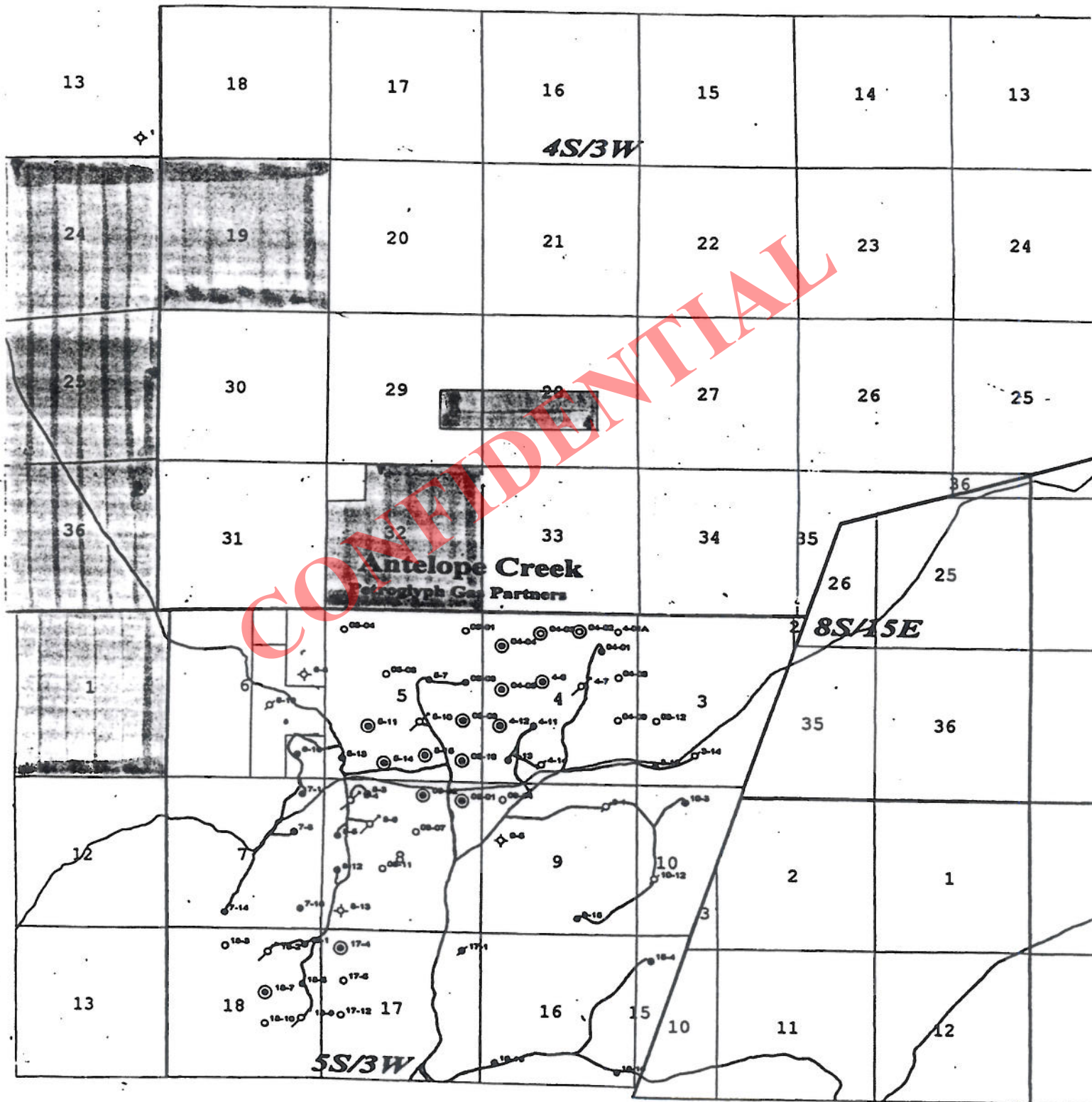




**EXHIBIT A**  
(continued)  
**MAP OF DUCHESNE FIELD LANDS**



**EXHIBIT A**  
(continued)  
**MAP OF ANTELOPE CREEK AREA LANDS**



**EXHIBIT B****NOTICE OF SURFACE USE AND EASEMENT FOR RIGHT OF WAY**

PETROGLYPH OPERATING COMPANY, INC., whose address is 6209 North Highway 61 P.O. Box 1839, Hutchinson, Kansas 67502 (Grantee), hereby gives notice to \_\_\_\_\_, whose address is \_\_\_\_\_, Utah 84\_\_\_\_, (Grantor) pursuant and subject to the terms and provisions of the Surface Use and Right-Of-Way Agreement dated \_\_\_\_\_, by and between the Grantor and, of the exercise of rights granted under the Agreement, for the purposes and affecting the property and interests of Grantor as follows:

To establish a multiple use Corridor Right Of Way for the operations of the Grantee on the lands herein listed.

In, over, upon and through the following described lands in Duchesne, County, Utah:

Township	South - Range	East - USM	
Section		Use Corridor	acres m/l.
Section		Location	acres, m/l.

Said Right-of-Way and surface use to be approximately \_\_\_\_\_ ft. in length, \_\_\_\_\_ ft. in width, and containing \_\_\_\_\_ acres and more particularly described and shown on the plat attached hereto.

IN WITNESS THEREOF, PETROGLYPH OPERATING COMPANY, INC. has caused this instrument to be executed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

By \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) : ss.

On the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, personally appeared before me, \_\_\_\_\_, and after being by me duly sworn did say that he/she is the \_\_\_\_\_ of PETROGLYPH OPERATING COMPANY, INC. and that said instrument was signed on behalf of said corporation by authority of its by-laws and said \_\_\_\_\_ duly acknowledged to me that said corporation executed the same.

\_\_\_\_\_  
Notary Public  
Residing in \_\_\_\_\_

My Commission Expires: \_\_\_\_\_  
\_\_\_\_\_



**PETROGLYPH OPERATING CO., INC.**  
**P.O. BOX 607**  
**ROOSEVELT, UTAH 84066**

November 6, 2013

Ms. Diana Mason  
State of Utah  
Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 01-07-E4: 2451' FNL & 1754' FEL, (Surface Hole)  
1930' FNL & 1980' FEL, (Bottom Hole)  
SW/NE, Sec. 1, T5S, R4W, U.S.B.&M.,  
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on November 6, 2013, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 01-10-E4 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and drilling directionally from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter,  
Agent  
P.O. Box 1910  
Vernal, UT 84078  
Phone: (435)789-4120  
Fax: (435)789-1420  
E-mail: edtrotter@easilink.com



**Certification**

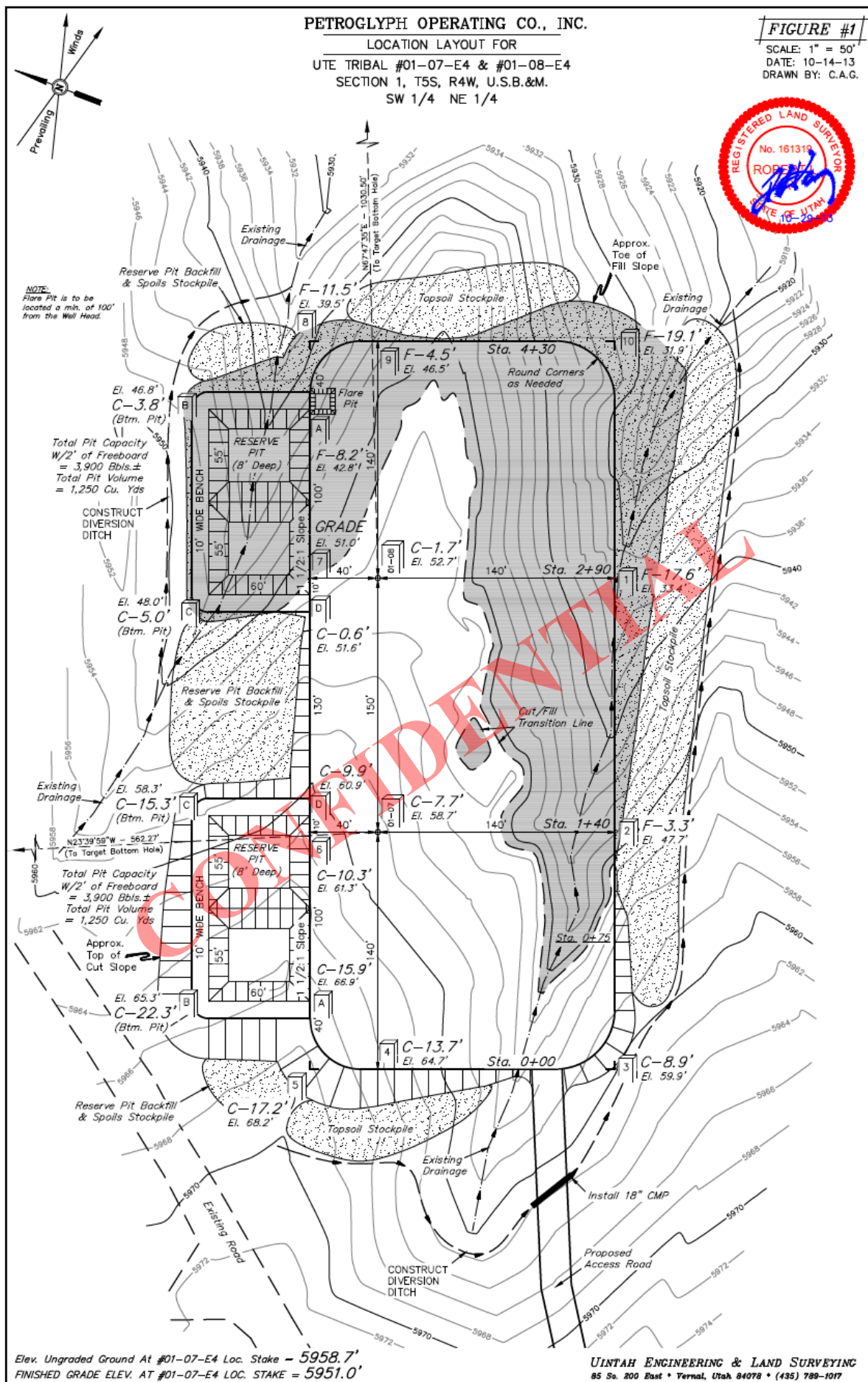
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 01-07-E4 Well, located in SW/NE of Section 1, T5S, R4W, Duchesne County, Utah, lease #14-20-H62-4743**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138153.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Agent

CONFIDENTIAL



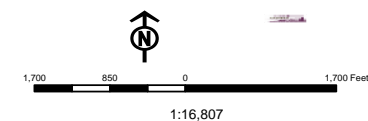
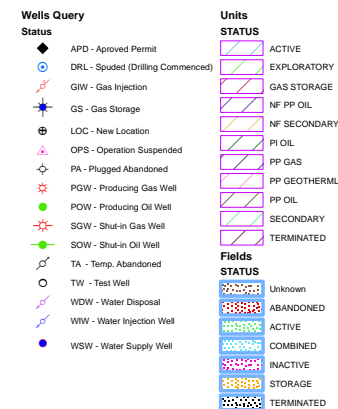
CONFIDENTIAL

API Number: 4301352656

Well Name: Ute Tribal 01-07-E4

Township: T05.0S Range: R04.0W Section: 01 Meridian: U

Operator: PETROGLYPH OPERATING CO

Map Prepared: 11/12/2013  
Map Produced by Diana Mason



# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** PETROGLYPH OPERATING CO  
**Well Name** Ute Tribal 01-07-E4  
**API Number** 43013526560000      **APD No** 9009      **Field/Unit** BRUNDAGE CANYON  
**Location:** 1/4,1/4 SWNE      **Sec** 1      **Tw** 5.0S      **Rng** 4.0W      2451 FNL 1754 FEL  
**GPS Coord (UTM)**      **Surface Owner** Brian T. Bawden

### **Participants**

Rodrigo Jurado, Les Farnsworth, John Weight, Chris Lock (Petroglyph Operating and landowner); Ed Trotter (Land Agent); David Gordon, David & Nick (BLM); Dennis Ingram (Utah Division of Oil, Gas & Mining)

### **Regional/Local Setting & Topography**

The Ute Tribal 01-07-E4 well is proposed in the SW/NE of Section 1, Township 5 South, Range 4 West. This pad is in northeastern Utah on the southern boundary of the Uintah Basin, approximately 7.1 miles south/southwest of the Bridgeland/U.S. Highway 40 junction, along the Antelope Canyon road one mile south of the Antelope/Sowers Canyon Junction, and proposed as a multi-well pad with the Ute Tribal 01-08-E4 as a second well. Broad, bench like habitat slopes north from Anthro Mountain into the Uintah Basin, having the lowest elevation at the Duchesne River. These broad benches have numerous drainages that drain the high country northerly, with Sowers Canyon being one of the primary arteries. This well pad is positioned approximately 0.5 miles west of Sowers Canyon along its western rims, in rolling hills with sparse cedar tree habitat and short, desert-like sagebrush country, on a narrow, fingered east/west ridge that drops into the canyon below. The immediate surface area is a south-easterly sloping ridge top that drops into Sowers Canyon.

### **Surface Use Plan**

#### **Current Surface Use**

Wildlfe Habitat  
Deer Winter Range

**New Road  
Miles**

0.059

**Well Pad**

**Width** 240      **Length** 430

**Src Const Material**

Onsite

**Surface Formation**

UNTA

**Ancillary Facilities** N

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Sparse vegetation, cedar tree, sagebrush, rabbit brush, bunch grass, prickly pear cactus; mule deer winter range, littered with tracks, elk potential, coyote, rabbit, fox, raptor nest in area, no details.

#### **Soil Type and Characteristics**

Tan, fine-grained sandy loam with small gravels and underlying sandstone

**Erosion Issues Y**

on fill slopes after dirt work is completed

**Sedimentation Issues Y****Site Stability Issues N****Drainage Diversion Required? Y**

Divert any and all drainages around well pad and tie back into existing drainage below or southeast of pad to reduce erosion

**Berm Required? Y****Erosion Sedimentation Control Required? N**

**Paleo Survey Run? Y**   **Paleo Potential Observed? N**   **Cultural Survey Run? Y**   **Cultural Resources? N**

**Reserve Pit****Site-Specific Factors****Site Ranking**

**Distance to Groundwater (feet)** >200 0

**Distance to Surface Water (feet)** >1000 0

**Dist. Nearest Municipal Well (ft)** >5280 0

**Distance to Other Wells (feet)** 20

**Native Soil Type** High permeability 20

**Fluid Type** Fresh Water 5

**Drill Cuttings** Normal Rock 0

**Annual Precipitation (inches)** 0

**Affected Populations**

**Presence Nearby Utility Conduits** Not Present 0

**Final Score** 45 1 Sensitivity Level

**Characteristics / Requirements**

Reserve it proposed off the northwest corner of location in cut, measuring 60' wide by 110' long by 8' deep.

**Closed Loop Mud Required? Liner Required? Y Liner Thickness 16 Pit Underlayment Required?**

**Other Observations / Comments**

Two well pad in open desert habitat, BLM claims potential sage grouse habitat, surface owned by operator, shallow drainages along the northwest and southwest corners need diverted, no issue with this well but the second well planned on this pad, the UT 01-08-E4 planned for the eastern portion of this pad will need the reserve pit moved south of its staking until the eastern dike is in cut rather than fill. No other comments.

Dennis Ingram

2/25/2014

**Evaluator**

**Date / Time**

**CONFIDENTIAL**

# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
9009	43013526560000	LOCKED	OW	P	No
<b>Operator</b>	PETROGLYPH OPERATING CO		<b>Surface Owner-APD</b>	Brian T. Bawden	
<b>Well Name</b>	Ute Tribal 01-07-E4		<b>Unit</b>		
<b>Field</b>	BRUNDAGE CANYON		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWNE 1 5S 4W U 2451 FNL 1754 FEL GPS Coord (UTM) 561277E 4436615N				

#### Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill  
**APD Evaluator**

3/5/2014  
**Date / Time**

#### Surface Statement of Basis

A presite to permit a two well pad, the Ute Tribal 01-07-E4 and the Ute Tribal 01-08-E4 were jointly scheduled and performed in conjunction on February 25, 2014, to take input and address issues regarding the construction and drill of these wells. According to Petroglyph, they have purchased this land and is now the owner of record. The operator and the BLM were both invited to the presite. The BLM representative commented that this surface is in a potential sage grouse habitat area although there wasn't any known bird activity mentioned.

The surface at the proposed wellsite does slope to the east, southeast, having two drainages that cut across the northern portion of the operators second reserve pit and across the southwestern location edge. Both of these drainages take storm water or snowmelt southeasterly and will need diverted around the location and tied back into the existing drainage like shown on the cut and fill sheet.

The reserve pit for this well is staked along the northwestern corner of the proposed well pad in cut, and will require a 16 mil synthetic liner to help contain the drilling fluids. The easterly reserve pit that is proposed for the Ute Tribal 01-08-E4 on this same pad will need moved westerly to prevent the downhill dike from being in fill. It appears fifty to sixty feet might be enough to eliminate the need for fill along that eastern dike. This well is planned as a central battery for these two wells and the Ute Tribal 01-09-E4 and 01-10-E4 wells that will be piped to this location. Therefore, the location shall have adequate berming to prevent fluids or spills from leaving the well site. Since this well is a split estate well, an Arch study was done by the operator to address concerns from the BLM.

Dennis Ingram  
**Onsite Evaluator**

2/25/2014  
**Date / Time**

#### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.



Pits	The reserve pit should be located on the north side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

CONFIDENTIAL

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/6/2013

API NO. ASSIGNED: 43013526560000

WELL NAME: Ute Tribal 01-07-E4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SWNE 01 050S 040W

Permit Tech Review: ☒

SURFACE: 2451 FNL 1754 FEL

Engineering Review: ☐

BOTTOM: 1930 FNL 1980 FEL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.07758

LONGITUDE: -110.28133

UTM SURF EASTINGS: 561277.00

NORTHINGS: 4436615.00

FIELD NAME: BRUNDAGE CANYON

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H624743

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - LPM4138153☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 43-8342☐ RDCC Review:☒ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☒ R649-3-3. Exception☒ Drilling Unit

Board Cause No: R649-3-11

Effective Date:

Siting:

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll  
4 - Federal Approval - dmason  
5 - Statement of Basis - bhll  
15 - Directional - dmason  
23 - Spacing - dmason

RECEIVED: March 11, 2014



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** Ute Tribal 01-07-E4  
**API Well Number:** 43013526560000  
**Lease Number:** 1420H624743  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 3/11/2014

### Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Boise, ID 83703

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,



completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program  
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

NOV 14 2013

## APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM Vernal UT  
CONFIDENTIAL

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H624743
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator PETROGLYPH OPERATING CO., INC. Contact: ED H TROTTER Email: edtrotter@easilink.com		7. Unit or CA Agreement, Name and No. 1420H624650
3a. Address P.O. BOX 607 ROOSEVELT, UT 84066	3b. Phone No. (include area code) Ph: 435-789-4120 Fx: 435-789-1420	8. Lease Name and Well No. UTE TRIBAL 01-07-E4
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE 2451FNL 1754FEL At proposed prod. zone SWNE 1930FNL 1980FEL		9. API Well No. 43 013 52656
14. Distance in miles and direction from nearest town or post office* 15.66 MILES SOUTHWEST OF MYTON, UTAH		10. Field and Pool, or Exploratory ANTELOPE CREEK
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1754	16. No. of Acres in Lease 707.27	11. Sec., T., R., M., or Blk. and Survey or Area Sec 1 T5S R4W Mer UBM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 3234	19. Proposed Depth 7151 MD 7103 TVD	12. County or Parish DUCHESNE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5951 GL	22. Approximate date work will start 01/15/2014	13. State UT
20. BLM/BIA Bond No. on file LPM4138153		23. Estimated duration 45 DAYS

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |  |  |
|--|--|
| 1. Well plat certified by a registered surveyor.<br>2. A Drilling Plan.<br>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).<br>5. Operator certification<br>6. Such other site specific information and/or plans as may be required by the authorized officer. |
|--|--|

25. Signature (Electronic Submission)	Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722-2531	Date 11/08/2013
Title DISTRICT MANAGER		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAR 28 2014
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

## CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Additional Operator Remarks (see next page)

Electronic Submission #226213 verified by the BLM Well Information System  
For PETROGLYPH OPERATING CO., INC., sent to the Vernal  
Committed to AFMSS for processing by LESLIE BUHLER on 11/14/2013 ()

## NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED

UDOGM

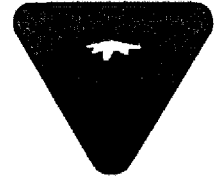


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: PETROGLYPH OPERATING CO  
Well No: UTE TRIBAL 01-07-E4  
API No: 43-013-52656

Location: SWNE SEC 01 T05S R04W  
Lease No: 1420H624743  
Agreement: 1420H624650

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.



***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- Paint all production facilities and equipment, not otherwise regulated (OSHA, etc.), Covert Green.
- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- The conditions of approval, as set forth by those owners and/or agencies, shall be adhered to.
- Stationary internal combustion engines would comply with the following emission standards: 2 g/bhp-hr of NO<sub>x</sub> for engines less than 300 HP and 1 g/bhp-hr of NO<sub>x</sub> for engines over 300 HP.
- Either no or low bleed controllers would be installed on pneumatic pumps, actuators or other pneumatic devices.
- VOC venting controls or flaring would be utilized for oil or gas atmospheric storage tanks.
- VOC venting controls or flaring would be used for glycol dehydration and amine units.
- Where feasible, green completion would be used for well completion, re-completion, venting, or planned blowdown emissions. Alternatively, use controlled VOC emissions methods with 90% efficiency.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Cement for the production casing will be brought to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run in the production casing to from PBTD to TOC.
- Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).

- Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
  - All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
  - Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
  - All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
  - Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
  - A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.



- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H624743
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		<b>8. WELL NAME and NUMBER:</b> Ute Tribal 01-07-E4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2451 FNL 1754 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013526560000
<b>PHONE NUMBER:</b> 208 685-7685 Ext		<b>9. FIELD and POOL or WILDCAT:</b> BRUNDAGE CANYON
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 4/15/2014  <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  This well was spud on 4/15/14 at approximately 11:00 A.M. Using a Bucket Rig (BR 2) provided by Craig's Roustabout Service, Vernal Utah; we set 60' of 16" Conductor. Please contact our staff if you have any questions.		
<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado		<b>PHONE NUMBER</b> 435 722-5302
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory & Compliance Spc
<b>DATE</b> 4/15/2014		<div style="text-align: right;"> <b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>FOR RECORD ONLY</b>          April 15, 2014       </div>

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Craig's /Pro Petro  
Submitted By Rodrigo Jurado Phone Number 435-722-5302  
Well Name/Number Ute Tribal 01-07-E4  
Qtr/Qtr SWNE Section 01 Township 5S Range 4W  
Lease Serial Number 14-20-H62-4743  
API Number 43-013-52656

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 04/18/2014 03:00 AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks We plan to run +/- 500' of 8-5/8" J-55 Surface Casing at the time indicated. (Sent 4/16/2014 @ 10:45 A.M.)

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Petroglyph Operating Company Operator Account Number: N 3800  
Address: P.O. Box 607  
city Roosevelt  
state UT zip 84066 Phone Number: (435) 722-2531

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352656	Ute Tribal 01-07-E4		SWNE	1	5S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	19443	4/15/2014			4/17/2014	
<b>Comments:</b> This well will be a new common tank battery called the Ute Tribal 01-07-E4 Tank Battery							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

**RECEIVED**

**APR 17 2014**

Div. of Oil, Gas & Mining

Rodrigo Jurado

Name (Please Print)

Signature

Regulatory Compliance Spc.

Title

4/15/2014

Date



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H624743																														
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE																														
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>7. UNIT or CA AGREEMENT NAME:</b>																														
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500, Boise, ID, 83703		<b>8. WELL NAME and NUMBER:</b> Ute Tribal 01-07-E4																														
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2451 FNL 1754 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013526560000																														
<b>5. FIELD and POOL or WILDCAT:</b> BRUNDAGE CANYON		<b>9. FIELD and POOL or WILDCAT:</b> BRUNDAGE CANYON																														
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH																														
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>																																
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>																															
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 4/30/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input checked="" type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR																														
<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME																														
<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE																														
<input checked="" type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION																														
<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK																														
<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION																														
<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON																														
<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL																														
<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION																														
<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>																														
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  This well is currently permitted to be drilled to a TD of 7151'MD. Petroglyph Operating proposes to deepen the well referenced above to a new TD of 7920'MD, 7903'TVD. The well will be drilled according to the approved program except for the change depth and an upgrade to the lower portion of production casing. Cement volumes will be adjusted accordingly to ensure cement is circulated to surface with appropriate excess. Please see the attached revised drilling program.																																
<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado		<b>PHONE NUMBER</b> 435 722-5302																														
<b>SIGNATURE</b> N/A		<b>DATE</b> 4/30/2014																														

**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

Formation		Subsea	TVD	MD
Rig KB=~13' above GGL		5964	0	0
Surface Formation = Uinta				
Uinta		5951	13	13
Green River		4700	1264	1267
Trona		3328	2636	2663
Mahogany Shale		3178	2786	3959
"B" Marker	Waterflood Unit Interval	2036	3928	3974
"X" Marker		1537	4427	4475
Douglas Creek Marker		1393	4571	4619
"B" Limestone		984	4980	4928
Base Castle Peak Limestone		450	5514	5562
Uteland Butte		46	5918	5966
Wasatch		-239	6203	6251
Formation at TD: Wasatch	Rig TD	-1939	7903	7920

**2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:**

Substance	Formation	Subsea	TVD	MD
Base of moderately saline ground water*	not present	6000	NA	NA
Oil/Gas	Uteland Butte	46	5918	5966
Oil/Gas	Wasatch	-239	6203	6251

Any water encountered during drilling shall be sampled, analyzed and reported to BLM, Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"\*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

\*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**3. PROPOSED CASING PROGRAM:**

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	493'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6300'	15.5	J-55	LTC
Production	7-7/8"	5-1/2"	6300'	7920'	17	N-80	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb
Production	7-7/8"	5-1/2"	6,280 psi	7,740 psi	348,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 3974'MD.

**4. PROPOSED CEMENTING PROGRAM:**

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 493	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	226 264	30%	15.8	1.17
Production Lead	0 3974	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	466 895	30%	12.5	1.92
Production Tail	3974 7920	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	609 889	30%	13.4	1.46

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 493'MD.



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:**

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

**BOPE TESTING PROCEDURE:**

- The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

**6. MUD PROGRAM:**

**A. SURFACE HOLE**

- The surface hole will be drilled with an air/mist system from 0' to 493'. All cuttings shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
  - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
  - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
  - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
  - Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.





**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**B. PRODUCTION HOLE**

- The production hole shall be drilled with a freshwater polymer system from 493' to 7920'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.8 lbs/gal. although mud weight up to 10lbs/gal may be used if necessary to prevent wellbore wall instability due to the planned inclination of the well.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

**C. HAZARDOUS MATERIALS AND POLLUTANTS**

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior DOGM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.

**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

**7. EVALUATION PROGRAM:**

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)  
Base of surface casing to surface (GR only)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

**8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

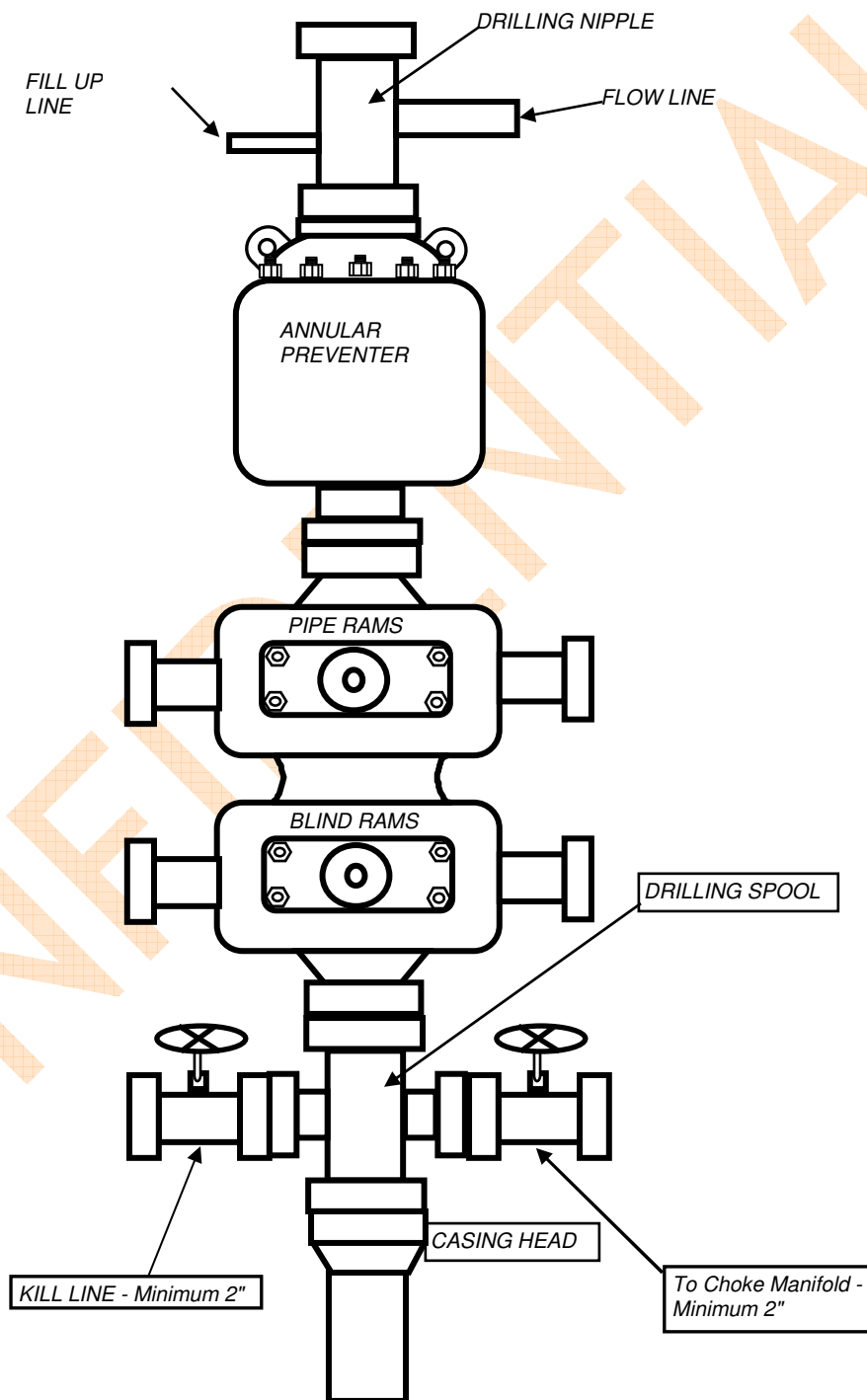
- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H<sub>2</sub>S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1980 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient .

**9. DIRECTIONAL WELL PLAN:**

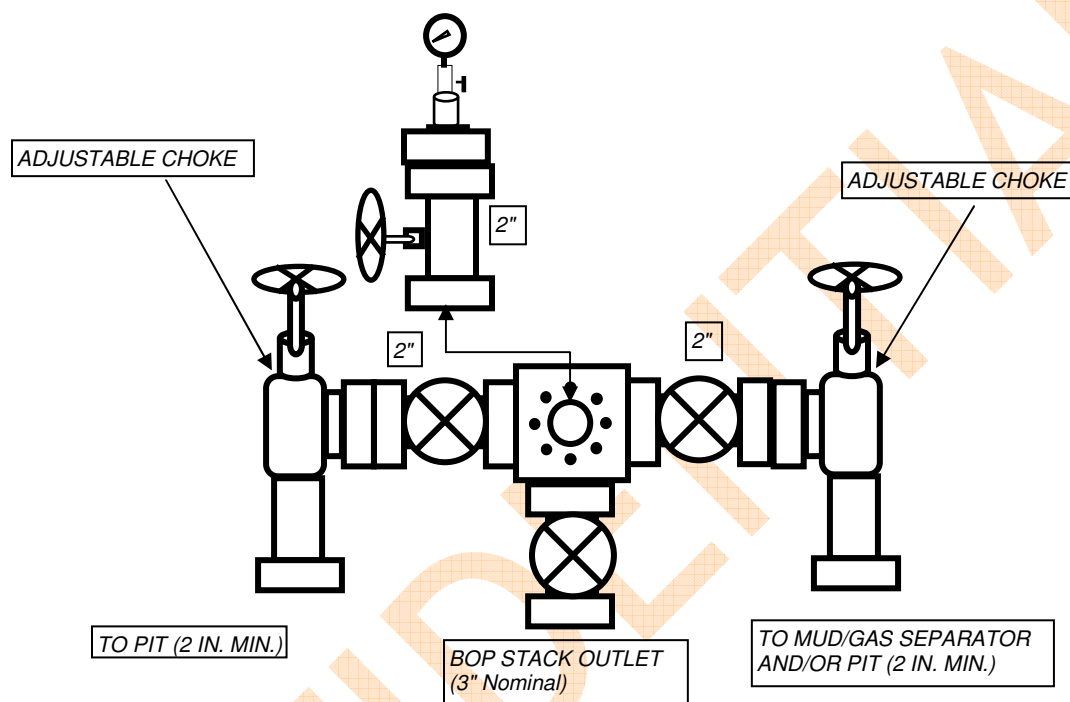
- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- While cutting the Waterflood Unit Interval from 3974' to 5966', the actual well path may be allowed to vary up to 100' horizontally from plan in order to prevent excessive slide drilling. Above and below the Waterflood Unit Interval, variances in excess 100' horizontally from plan may be allowed.
- Directional drilling plan is attached.

**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**

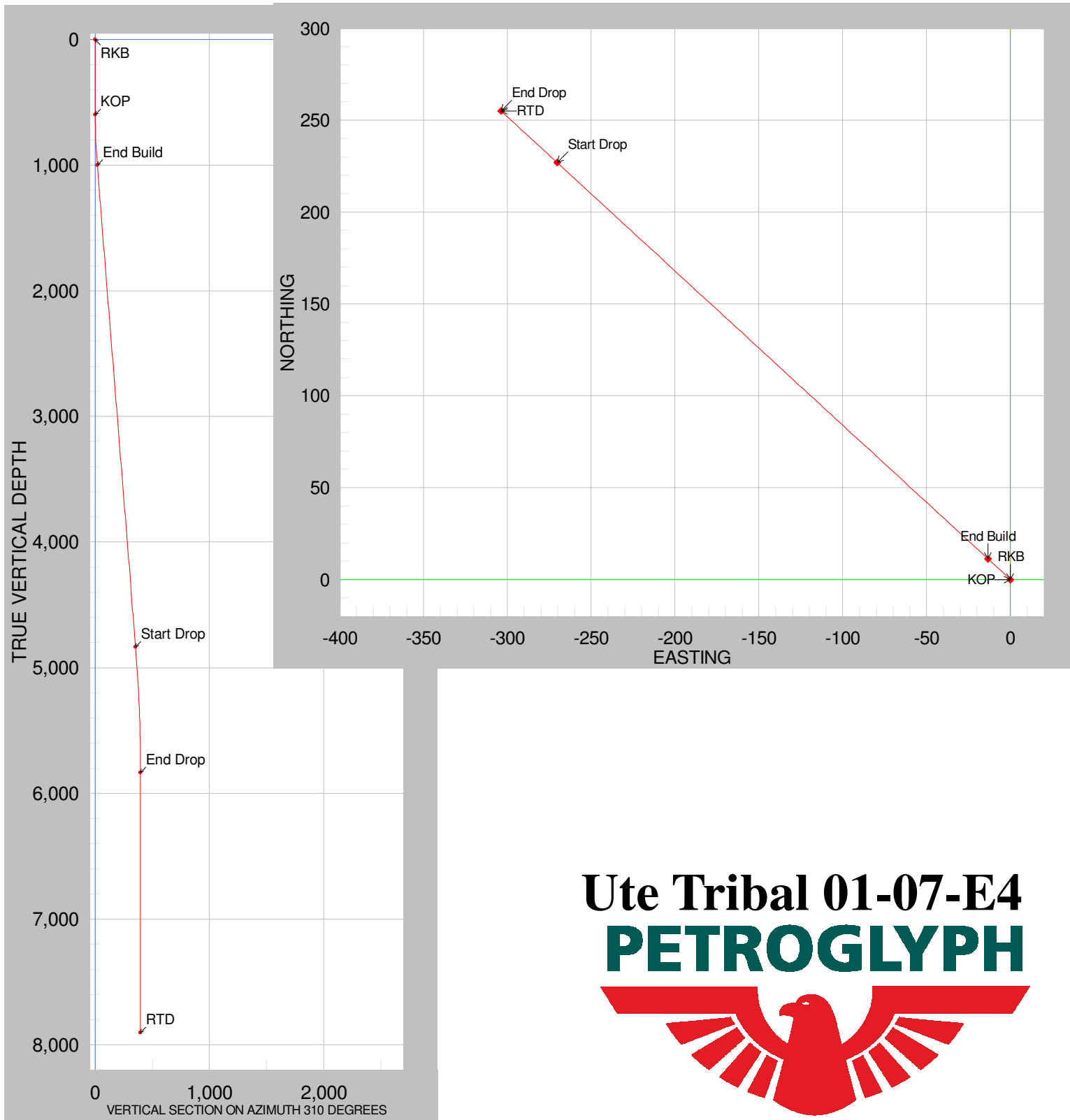
**TYPICAL 2,000 p.s.i. BLOWOUT PREVENTER**



**CONFIDENTIAL**  
**NINE POINT DRILLING PLAN**  
**PETROGLYPH OPERATING COMPANY, INC**  
**UTE TRIBAL 01-07-E4**  
**SW NE, SEC 1, T5S, R4W**  
**DUCHESNE COUNTY, UTAH**  
**TYPICAL 2,000 p.s.i. CHOKE MANIFOLD**







# Ute Tribal 01-07-E4

## PETROGLYPH



#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1000.00	5.00	310.00	999.49	11.21	-13.36	1.25	17.44
3	Start Drop	Tangent	4850.00	5.00	310.00	4834.84	226.90	-270.41	0.00	352.99
4	End Drop	Drop	5850.00	0.00	0.00	5833.57	254.93	-303.81	0.50	396.60
5	RTD	Vertical	7920.00	0.00	0.00	7903.57	254.93	-303.81	0.00	396.60

SES - Stoner Engineering Software

**01-07-E4, Plan 1**

<b>Operator</b>	<b>Units</b> feet, %/100ft	08:47 Wednesday, April 30, 2014 Page 1 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 310
<b>Well Name</b> 01-07-E4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL	<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>	<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

**DIRECTIONAL WELL PLAN**

<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	310.0	650.00	0.18	-0.21	1.25	0.27			
700.00	1.25	310.0	699.99	0.70	-0.84	1.25	1.09			
750.00	1.88	310.0	749.97	1.58	-1.88	1.25	2.45			
800.00	2.50	310.0	799.94	2.80	-3.34	1.25	4.36			
850.00	3.13	310.0	849.88	4.38	-5.22	1.25	6.82			
900.00	3.75	310.0	899.79	6.31	-7.52	1.25	9.81			
950.00	4.38	310.0	949.66	8.59	-10.23	1.25	13.36			
*** END BUILD (at MD = 1000.00)										
1000.00	5.00	310.0	999.49	11.21	-13.36	1.25	17.44			
1050.00	5.00	310.0	1049.30	14.01	-16.70	0.00	21.80			
1100.00	5.00	310.0	1099.11	16.81	-20.04	0.00	26.16			
1150.00	5.00	310.0	1148.92	19.62	-23.38	0.00	30.52			
1200.00	5.00	310.0	1198.73	22.42	-26.71	0.00	34.87			
1250.00	5.00	310.0	1248.54	25.22	-30.05	0.00	39.23			
1300.00	5.00	310.0	1298.35	28.02	-33.39	0.00	43.59			
1350.00	5.00	310.0	1348.16	30.82	-36.73	0.00	47.95			
1400.00	5.00	310.0	1397.97	33.62	-40.07	0.00	52.30			
1450.00	5.00	310.0	1447.78	36.42	-43.41	0.00	56.66			
1500.00	5.00	310.0	1497.59	39.22	-46.74	0.00	61.02			
1550.00	5.00	310.0	1547.40	42.02	-50.08	0.00	65.38			
1600.00	5.00	310.0	1597.21	44.83	-53.42	0.00	69.74			

SES - Stoner Engineering Software

**01-07-E4, Plan 1**

<b>Operator</b>		<b>Units</b>		feet, %/100ft		08:47 Wednesday, April 30, 2014 Page 2 of 5			
<b>Field</b>		<b>County</b>		Duchesne		<b>Vertical Section Azimuth</b> 310			
<b>Well Name</b> 01-07-E4		<b>State</b>		UT		<b>Survey Calculation Method</b> Minimum Curvature			
<b>Plan</b> 1		<b>Country</b>		USA		<b>Database</b> Access			
<b>Location</b>		SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL		<b>MapZone</b>		<b>Lat Long Ref</b>			
<b>Site</b>				<b>SurfaceX</b>		<b>Surface Long</b>			
<b>Slot Name</b>		<b>UWI</b>		<b>SurfaceY</b>		<b>Surface Lat</b>			
<b>Well Number</b>		<b>API</b>		<b>Z Datum</b>					
<b>Project</b>				<b>Surface Z</b>		<b>Ground Level</b>			
<b>DIRECTIONAL WELL PLAN</b>									
<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN* SysTVD*</b>
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft ft
1650.00	5.00	310.0	1647.02	47.63	-56.76	0.00	74.09		
1700.00	5.00	310.0	1696.83	50.43	-60.10	0.00	78.45		
1750.00	5.00	310.0	1746.64	53.23	-63.44	0.00	82.81		
1800.00	5.00	310.0	1796.45	56.03	-66.77	0.00	87.17		
1850.00	5.00	310.0	1846.26	58.83	-70.11	0.00	91.52		
1900.00	5.00	310.0	1896.07	61.63	-73.45	0.00	95.88		
1950.00	5.00	310.0	1945.88	64.43	-76.79	0.00	100.24		
2000.00	5.00	310.0	1995.69	67.23	-80.13	0.00	104.60		
2050.00	5.00	310.0	2045.50	70.04	-83.46	0.00	108.96		
2100.00	5.00	310.0	2095.31	72.84	-86.80	0.00	113.31		
2150.00	5.00	310.0	2145.12	75.64	-90.14	0.00	117.67		
2200.00	5.00	310.0	2194.93	78.44	-93.48	0.00	122.03		
2250.00	5.00	310.0	2244.74	81.24	-96.82	0.00	126.39		
2300.00	5.00	310.0	2294.55	84.04	-100.16	0.00	130.74		
2350.00	5.00	310.0	2344.36	86.84	-103.49	0.00	135.10		
2400.00	5.00	310.0	2394.17	89.64	-106.83	0.00	139.46		
2450.00	5.00	310.0	2443.97	92.44	-110.17	0.00	143.82		
2500.00	5.00	310.0	2493.78	95.25	-113.51	0.00	148.18		
2550.00	5.00	310.0	2543.59	98.05	-116.85	0.00	152.53		
2600.00	5.00	310.0	2593.40	100.85	-120.19	0.00	156.89		
2650.00	5.00	310.0	2643.21	103.65	-123.52	0.00	161.25		
2700.00	5.00	310.0	2693.02	106.45	-126.86	0.00	165.61		
2750.00	5.00	310.0	2742.83	109.25	-130.20	0.00	169.96		
2800.00	5.00	310.0	2792.64	112.05	-133.54	0.00	174.32		
2850.00	5.00	310.0	2842.45	114.85	-136.88	0.00	178.68		
2900.00	5.00	310.0	2892.26	117.65	-140.22	0.00	183.04		
2950.00	5.00	310.0	2942.07	120.46	-143.55	0.00	187.40		
3000.00	5.00	310.0	2991.88	123.26	-146.89	0.00	191.75		
3050.00	5.00	310.0	3041.69	126.06	-150.23	0.00	196.11		
3100.00	5.00	310.0	3091.50	128.86	-153.57	0.00	200.47		
3150.00	5.00	310.0	3141.31	131.66	-156.91	0.00	204.83		
3200.00	5.00	310.0	3191.12	134.46	-160.24	0.00	209.18		
3250.00	5.00	310.0	3240.93	137.26	-163.58	0.00	213.54		
3300.00	5.00	310.0	3290.74	140.06	-166.92	0.00	217.90		
3350.00	5.00	310.0	3340.55	142.86	-170.26	0.00	222.26		

## SES - Stoner Engineering Software

## 01-07-E4, Plan 1

<b>Operator</b>	<b>Units</b> feet, %/100ft	08:47 Wednesday, April 30, 2014 Page 3 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 310
<b>Well Name</b> 01-07-E4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL	<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>	<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

**DIRECTIONAL WELL PLAN**

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3400.00	5.00	310.0	3390.36	145.67	-173.60	0.00	226.62			
3450.00	5.00	310.0	3440.17	148.47	-176.94	0.00	230.97			
3500.00	5.00	310.0	3489.98	151.27	-180.27	0.00	235.33			
3550.00	5.00	310.0	3539.79	154.07	-183.61	0.00	239.69			
3600.00	5.00	310.0	3589.60	156.87	-186.95	0.00	244.05			
3650.00	5.00	310.0	3639.41	159.67	-190.29	0.00	248.40			
3700.00	5.00	310.0	3689.22	162.47	-193.63	0.00	252.76			
3750.00	5.00	310.0	3739.03	165.27	-196.97	0.00	257.12			
3800.00	5.00	310.0	3788.84	168.08	-200.30	0.00	261.48			
3850.00	5.00	310.0	3838.65	170.88	-203.64	0.00	265.84			
3900.00	5.00	310.0	3888.46	173.68	-206.98	0.00	270.19			
3950.00	5.00	310.0	3938.27	176.48	-210.32	0.00	274.55			
4000.00	5.00	310.0	3988.08	179.28	-213.66	0.00	278.91			
4050.00	5.00	310.0	4037.89	182.08	-217.00	0.00	283.27			
4100.00	5.00	310.0	4087.70	184.88	-220.33	0.00	287.63			
4150.00	5.00	310.0	4137.51	187.68	-223.67	0.00	291.98			
4200.00	5.00	310.0	4187.32	190.48	-227.01	0.00	296.34			
4250.00	5.00	310.0	4237.13	193.29	-230.35	0.00	300.70			
4300.00	5.00	310.0	4286.94	196.09	-233.69	0.00	305.06			
4350.00	5.00	310.0	4336.74	198.89	-237.02	0.00	309.41			
4400.00	5.00	310.0	4386.55	201.69	-240.36	0.00	313.77			
4450.00	5.00	310.0	4436.36	204.49	-243.70	0.00	318.13			
4500.00	5.00	310.0	4486.17	207.29	-247.04	0.00	322.49			
4550.00	5.00	310.0	4535.98	210.09	-250.38	0.00	326.85			
4600.00	5.00	310.0	4585.79	212.89	-253.72	0.00	331.20			
4650.00	5.00	310.0	4635.60	215.69	-257.05	0.00	335.56			
4700.00	5.00	310.0	4685.41	218.50	-260.39	0.00	339.92			
4750.00	5.00	310.0	4735.22	221.30	-263.73	0.00	344.28			
4800.00	5.00	310.0	4785.03	224.10	-267.07	0.00	348.63			
*** START DROP (at MD = 4850.00)										
4850.00	5.00	310.0	4834.84	226.90	-270.41	0.00	352.99			
4900.00	4.75	310.0	4884.66	229.63	-273.66	0.50	357.24			
4950.00	4.50	310.0	4934.50	232.22	-276.75	0.50	361.27			
5000.00	4.25	310.0	4984.35	234.67	-279.67	0.50	365.09			
5050.00	4.00	310.0	5034.22	236.99	-282.43	0.50	368.68			

## SES - Stoner Engineering Software

## 01-07-E4, Plan 1

<b>Operator</b>		<b>Units</b>	feet, %/100ft	08:47 Wednesday, April 30, 2014	Page 4 of 5
<b>Field</b>		<b>County</b>	Duchesne	<b>Vertical Section Azimuth</b>	310
<b>Well Name</b>	01-07-E4	<b>State</b>	UT	<b>Survey Calculation Method</b>	Minimum Curvature
<b>Plan</b>	1	<b>Country</b>	USA	<b>Database</b>	Access

<b>Location</b>	SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL	<b>MapZone</b>		<b>Lat Long Ref</b>	
<b>Site</b>		<b>SurfaceX</b>		<b>Surface Long</b>	
<b>Slot Name</b>		<b>SurfaceY</b>		<b>Surface Lat</b>	
<b>Well Number</b>		<b>Z Datum</b>			
<b>Project</b>		<b>Surface Z</b>		<b>Ground Level</b>	

**DIRECTIONAL WELL PLAN**

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5100.00	3.75	310.0	5084.11	239.16	-285.02	0.50	372.06			
5150.00	3.50	310.0	5134.01	241.19	-287.44	0.50	375.22			
5200.00	3.25	310.0	5183.92	243.08	-289.69	0.50	378.17			
5250.00	3.00	310.0	5233.85	244.83	-291.78	0.50	380.89			
5300.00	2.75	310.0	5283.78	246.45	-293.70	0.50	383.40			
5350.00	2.50	310.0	5333.73	247.92	-295.46	0.50	385.69			
5400.00	2.25	310.0	5383.69	249.25	-297.04	0.50	387.76			
5450.00	2.00	310.0	5433.65	250.44	-298.46	0.50	389.62			
5500.00	1.75	310.0	5483.63	251.49	-299.72	0.50	391.25			
5550.00	1.50	310.0	5533.61	252.40	-300.80	0.50	392.67			
5600.00	1.25	310.0	5583.59	253.18	-301.72	0.50	393.87			
5650.00	1.00	310.0	5633.58	253.81	-302.47	0.50	394.85			
5700.00	0.75	310.0	5683.58	254.30	-303.06	0.50	395.62			
5750.00	0.50	310.0	5733.57	254.65	-303.48	0.50	396.16			
5800.00	0.25	310.0	5783.57	254.86	-303.73	0.50	396.49			
*** END DROP (at MD = 5850.00)										
5850.00	0.00	0.0	5833.57	254.93	-303.81	0.50	396.60			
5900.00	0.00	0.0	5883.57	254.93	-303.81	0.00	396.60			
5950.00	0.00	0.0	5933.57	254.93	-303.81	0.00	396.60			
6000.00	0.00	0.0	5983.57	254.93	-303.81	0.00	396.60			
6050.00	0.00	0.0	6033.57	254.93	-303.81	0.00	396.60			
6100.00	0.00	0.0	6083.57	254.93	-303.81	0.00	396.60			
6150.00	0.00	0.0	6133.57	254.93	-303.81	0.00	396.60			
6200.00	0.00	0.0	6183.57	254.93	-303.81	0.00	396.60			
6250.00	0.00	0.0	6233.57	254.93	-303.81	0.00	396.60			
6300.00	0.00	0.0	6283.57	254.93	-303.81	0.00	396.60			
6350.00	0.00	0.0	6333.57	254.93	-303.81	0.00	396.60			
6400.00	0.00	0.0	6383.57	254.93	-303.81	0.00	396.60			
6450.00	0.00	0.0	6433.57	254.93	-303.81	0.00	396.60			
6500.00	0.00	0.0	6483.57	254.93	-303.81	0.00	396.60			
6550.00	0.00	0.0	6533.57	254.93	-303.81	0.00	396.60			
6600.00	0.00	0.0	6583.57	254.93	-303.81	0.00	396.60			
6650.00	0.00	0.0	6633.57	254.93	-303.81	0.00	396.60			
6700.00	0.00	0.0	6683.57	254.93	-303.81	0.00	396.60			
6750.00	0.00	0.0	6733.57	254.93	-303.81	0.00	396.60			



SES - Stoner Engineering Software

**01-07-E4, Plan 1**

<b>Operator</b>	<b>Units</b> feet, %/100ft	08:47 Wednesday, April 30, 2014 Page 5 of 5
<b>Field</b>	<b>County</b> Duchesne	<b>Vertical Section Azimuth</b> 310
<b>Well Name</b> 01-07-E4	<b>State</b> UT	<b>Survey Calculation Method</b> Minimum Curvature
<b>Plan</b> 1	<b>Country</b> USA	<b>Database</b> Access

<b>Location</b> SHL: 2451' FNL & 1754' FEL BHL: 1930' FNL & 1980' FEL	<b>MapZone</b>	<b>Lat Long Ref</b>
<b>Site</b>	<b>SurfaceX</b>	<b>Surface Long</b>
<b>Slot Name</b>	<b>SurfaceY</b>	<b>Surface Lat</b>
<b>Well Number</b>	<b>Z Datum</b>	
<b>Project</b>	<b>Surface Z</b>	<b>Ground Level</b>

**DIRECTIONAL WELL PLAN**

<b>MD*</b>	<b>INC*</b>	<b>AZI*</b>	<b>TVD*</b>	<b>N*</b>	<b>E*</b>	<b>DLS*</b>	<b>V. S.*</b>	<b>MapE*</b>	<b>MapN*</b>	<b>SysTVD*</b>
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6800.00	0.00	0.0	6783.57	254.93	-303.81	0.00	396.60			
6850.00	0.00	0.0	6833.57	254.93	-303.81	0.00	396.60			
6900.00	0.00	0.0	6883.57	254.93	-303.81	0.00	396.60			
6950.00	0.00	0.0	6933.57	254.93	-303.81	0.00	396.60			
7000.00	0.00	0.0	6983.57	254.93	-303.81	0.00	396.60			
7050.00	0.00	0.0	7033.57	254.93	-303.81	0.00	396.60			
7100.00	0.00	0.0	7083.57	254.93	-303.81	0.00	396.60			
7150.00	0.00	0.0	7133.57	254.93	-303.81	0.00	396.60			
7200.00	0.00	0.0	7183.57	254.93	-303.81	0.00	396.60			
7250.00	0.00	0.0	7233.57	254.93	-303.81	0.00	396.60			
7300.00	0.00	0.0	7283.57	254.93	-303.81	0.00	396.60			
7350.00	0.00	0.0	7333.57	254.93	-303.81	0.00	396.60			
7400.00	0.00	0.0	7383.57	254.93	-303.81	0.00	396.60			
7450.00	0.00	0.0	7433.57	254.93	-303.81	0.00	396.60			
7500.00	0.00	0.0	7483.57	254.93	-303.81	0.00	396.60			
7550.00	0.00	0.0	7533.57	254.93	-303.81	0.00	396.60			
7600.00	0.00	0.0	7583.57	254.93	-303.81	0.00	396.60			
7650.00	0.00	0.0	7633.57	254.93	-303.81	0.00	396.60			
7700.00	0.00	0.0	7683.57	254.93	-303.81	0.00	396.60			
7750.00	0.00	0.0	7733.57	254.93	-303.81	0.00	396.60			
7800.00	0.00	0.0	7783.57	254.93	-303.81	0.00	396.60			
7850.00	0.00	0.0	7833.57	254.93	-303.81	0.00	396.60			
7900.00	0.00	0.0	7883.57	254.93	-303.81	0.00	396.60			
*** RTD (at MD = 7920.00)										
7920.00	0.00	0.0	7903.57	254.93	-303.81	0.00	396.60			

## BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating \_\_\_\_\_ Rig Name/# Capstar 334  
Submitted By Levi Jacobs \_\_\_\_\_ Phone Number 406-868-9935  
Well Name/Number Ute Tribal 01-07-E4  
Qtr/Qtr SWNE Section 1S Township 75S Range 4W  
Lease Serial Number 14-20-H62-4743  
API Number 43-013-52656

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing  
☐ Intermediate Casing  
☒ Production Casing  
☐ Liner  
☐ Other

Date/Time 05/02/2014 18:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_  
\_\_\_\_\_

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H624743
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>8. WELL NAME and NUMBER:</b> Ute Tribal 01-07-E4
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500, Boise, ID, 83703		<b>9. API NUMBER:</b> 43013526560000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2451 FNL 1754 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> BRUNDAGE CANYON
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/9/2014</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 04, 2014

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/4/2014	

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607    CITY Roosevelt    STATE UT    ZIP 84066		7. UNIT or CA AGREEMENT NAME: 1420H624650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2451' FNL, 1754' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 1 5S 4W U		8. WELL NAME and NUMBER: Ute Tribal 01-07-E4 9. API NUMBER: 4301352656 10. FIELD AND POOL, OR WILDCAT: Antelope Creek
		COUNTY: Duchesne STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: <u>6/9/2014</u>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On or around 6/9/2014, depending on equipment availability, Petroglyph Operating intends to perforate and fracture treat the following: 4228-32, 4468-70, 4619-24, 4639-41, 4678-81, 4687-89, 4753-55, 4783-98, 4802-10, 4845-47, 4940-42, 5012-19, 5142-44, 5152-58, 5250-56, 5266-68, 5279-88, 5303-08, 5331-34, 5352-54, 5446-50, 5496-99, 5522-24, 5540-57, 5560-63, 5600-03, 5751-56, 5760-62, 5836-39, 5894-96, 5949-50, 6000-01, 6006-10, 6018-20, 6026-27, 6030-33, 6047-50, 6062-66, 6152-57, 6278-91, 6298-6302, 6465-70, 6565-70, 6575-78 & 6585-94. We will perforate at 4 shot per foot and isolate zones using Halliburton 8K Composite Plugs. We plan complete the following stages:

6465-6594: 36,400 Gals of fluid containing 65,000#'s of sand,  
 6152-6302: 36,400 Gals of fluid containing 65,000#'s of sand,  
 5949-6066: 28,000 Gals of fluid containing 50,000#'s of sand,  
 5751-5896: 16,800 Gals of fluid containing 30,000#'s of sand,  
 5446-5603: 44,800 Gals of fluid containing 80,000#'s of sand,  
 5250-5354: 39,200 Gals of fluid containing 70,000#'s of sand,  
 4940-5158: 25,200 Gals of fluid containing 45,000#'s of sand, 4753-4847: 36,400 Gals of fluid containing 65,000#'s of sand,  
 4619-4689: 19,600 Gals of fluid containing 35,000#'s of sand, 4228-4470: 10,080 Gals of fluid containing 18,000#'s of sand.

This plan is tentative and will be adjusted as needed during completion operations. Volumes and amounts of sand are only estimates, actual figures will be reported at a later date. All plugs will be drilled out and the well swabbed if necessary.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE	DATE <u>6/4/2014</u>

(This space for State use only)

## BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating \_\_\_\_\_ Rig Name/# Capstar 334  
Submitted By Levi Jacobs \_\_\_\_\_ Phone Number 406-868-9935  
Well Name/Number Ute Tribal 01-07-E4  
Qtr/Qtr SWNE Section 1S Township 75S Range 4W  
Lease Serial Number 14-20-H62-4743  
API Number 43-013-52656

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing  
☐ Intermediate Casing  
☒ Production Casing  
☐ Liner  
☐ Other

Date/Time 05/02/2014 18:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_  
\_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H624743
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>8. WELL NAME and NUMBER:</b> Ute Tribal 01-07-E4
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		<b>9. API NUMBER:</b> 43013526560000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2451 FNL 1754 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> BRUNDAGE CANYON
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/9/2014</b>	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input checked="" type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 04, 2014

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/4/2014	

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624743
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 1420H624650
4. LOCATION OF WELL FOOTAGES AT SURFACE 2451' FNL, 1754' FEL		8. WELL NAME and NUMBER: Ute Tribal 01-07-E4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN SWNE 1 5S 4W U		9. API NUMBER: 4301352656
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: 6/9/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On or around 6/9/2014, depending on equipment availability, Petroglyph Operating intends to perforate and fracture treat the following: 4228-32, 4468-70, 4619-24, 4639-41, 4678-81, 4687-89, 4753-55, 4783-98, 4802-10, 4845-47, 4940-42, 5012-19, 5142-44, 5152-58, 5250-56, 5266-68, 5279-88, 5303-08, 5331-34, 5352-54, 5446-50, 5496-99, 5522-24, 5540-57, 5560-63, 5600-03, 5751-56, 5760-62, 5836-39, 5894-96, 5949-50, 6000-01, 6006-10, 6018-20, 6026-27, 6030-33, 6047-50, 6062-66, 6152-57, 6278-91, 6298-6302, 6465-70, 6565-70, 6575-78 & 6585-94. We will perforate at 4 shot per foot and isolate zones using Halliburton 8K Composite Plugs. We plan complete the following stages:

6465-6594: 36,400 Gals of fluid containing 65,000#'s of sand,  
 6152-6302: 36,400 Gals of fluid containing 65,000#'s of sand,  
 5949-6066: 28,000 Gals of fluid containing 50,000#'s of sand,  
 5751-5896: 16,800 Gals of fluid containing 30,000#'s of sand,  
 5446-5603: 44,800 Gals of fluid containing 80,000#'s of sand,  
 5250-5354: 39,200 Gals of fluid containing 70,000#'s of sand,  
 4940-5158: 25,200 Gals of fluid containing 45,000#'s of sand, 4753-4847: 36,400 Gals of fluid containing 65,000#'s of sand,  
 4619-4689: 19,600 Gals of fluid containing 35,000#'s of sand, 4228-4470: 10,080 Gals of fluid containing 18,000#'s of sand.

This plan is tentative and will be adjusted as needed during completion operations. Volumes and amounts of sand are only estimates, actual figures will be reported at a later date. All plugs will be drilled out and the well swabbed if necessary.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE 	DATE <u>6/4/2014</u>

(This space for State use only)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H624743
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500, Boise, ID, 83703		<b>8. WELL NAME and NUMBER:</b> Ute Tribal 01-07-E4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2451 FNL 1754 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013526560000
<b>9. FIELD and POOL or WILDCAT:</b> BRUNDAGE CANYON		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>7/14/2014</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
  

Petroglyph Operating Company, Inc. requests permission to commingle oil and gas production from the Wasatch and Green River Formations on the well referenced above. Petroglyph Operating has made all necessary notifications in accordance with with Utah's Oil, Gas, and Mining regulation R649-3-22. Please see the attached Affidavit of Notice and Map.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** July 31, 2014

**By:** *Derek Quist*

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/14/2014	

**AFFIDAVIT OF NOTICE**

State of Idaho            )  
                                  ) ss  
County of Ada            )

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease UTE 14-20-H62-4743:

UTE TRIBAL 01-07-E4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc. is the only owner of contiguous oil and gas leases overlying the pool and no notice to other parties is necessary.


Petroglyph Energy, Inc.

  
Vera Johnson

State of Idaho            )  
                                  ) ss  
County of Ada            )

The above and foregoing Affidavit was subscribed and sworn to before me on the 9<sup>th</sup> day of July, 2014, by Vera Johnson.

Witness my hand and official seal.

  
Notary Public

(SEAL)







<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H624743
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>8. WELL NAME and NUMBER:</b> Ute Tribal 01-07-E4
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500 , Boise, ID, 83703	<b>PHONE NUMBER:</b> 208 685-7685 Ext	<b>9. API NUMBER:</b> 43013526560000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2451 FNL 1754 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> BRUNDAGE CANYON
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>7/15/2014</b>	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION		OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The date of first production for this well was 07/15/2014.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 August 04, 2014

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/21/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H624743
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> PETROGLYPH OPERATING CO		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 960 Broadway Avenue, Ste 500 , Boise, ID, 83703		<b>8. WELL NAME and NUMBER:</b> Ute Tribal 01-07-E4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2451 FNL 1754 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 01 Township: 05.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013526560000
<b>9. FIELD and POOL or WILDCAT:</b> BRUNDAGE CANYON		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input checked="" type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>7/15/2014</b>				
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

Please see attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 October 09, 2014

<b>NAME (PLEASE PRINT)</b> Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	<b>TITLE</b> Regulatory & Compliance Spc
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/1/2014	

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-4743
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME: 14-20-H62-4650
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2451' FNL, 1754' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 1 5S 4W U		8. WELL NAME and NUMBER: Ute Tribal 01-07-E4
PHONE NUMBER: (435) 722-2531		9. API NUMBER: 4301352656
		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
		COUNTY: Duchesne
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: 7/15/2014	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN  <input checked="" type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> PRODUCTION (START/RESUME)  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> TEMPORARILY ABANDON  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> WATER SHUT-OFF  <input type="checkbox"/> OTHER: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 6/4/2014 Petroglyph Operating ran GR/CBL and found ETOC @ Surface. On 6/24/2014 we then perforated the following: 6585-94, 6575-78, 6565-70, 6465-74, 6298-6302, 6278-91, 6152-57, 6062-66, 6047-50, 6030-33, 6026-27, 6018-20, 6006-10, 6000-01, 5949-50, 5894-96, 5836-39, 5760-62, 5751-56, 5600-03, 5560-63, 5540-57, 5522-24, 5496-99, 5446-50, 5352-54, 5331-34, 5303-08, 5279-88, 5266-68, 5250-56, 5152-58, 5142-44, 5012-19, 4940-42, 4845-47, 4802-10, 4783-98, 4753-55, 4687-89, 4678-81, 4639-41, 4619-24, 4468-70, 4228-32. We isolated and fracture treated the following intervals: 6,465'-6,594': 854 Bbls of fluid containing 65,000#'s of sand, 6,152'-6,302': 938 Bbls of fluid containing 65,140#'s of sand, 5,949'-6,066': 828 Bbls of fluid containing 50,020#'s of sand, 5,751'-5,896': 521 Bbls of fluid containing 30,320#'s of sand, 5,446'-5,603': 939 Bbls of fluid containing 80,000#'s of sand, 5,250'-5,354': 837 Bbls of fluid containing 69,060#'s of sand, 4,940'-5,158': 612 Bbls of fluid containing 45,000#'s of sand, 4,753'-4,847': 793 Bbls of fluid containing 65,000#'s of sand, 4,619'-4,689': 510 Bbls of fluid containing 35,000#'s of sand, 4,228'-4,470': 377 Bbls of fluid containing 19,000#'s of sand. Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Dyna LP 22 18# gelled fluid, sand used was 20/40 Mesh Premium White Sand and guns used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 4 SPF @ 120\* Phased. All plugs were drilled out and cleaned out to PBTD, 7,102'. The well was swabbed until a good oil cut was see, then ran a pump on 7/15/2014 and put to pump.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE	DATE <u>10/1/2014</u>

(This space for State use only)

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>14-20-H62-4743</b>
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Ute Indian Tribe</b>
2. NAME OF OPERATOR: <b>Petroglyph Operating Company, Inc.</b>		7. UNIT or CA AGREEMENT NAME: <b>14-20-H62-4650</b>
3. ADDRESS OF OPERATOR: <b>P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066</b>		8. WELL NAME and NUMBER: <b>Ute Tribal 01-07-E4</b>
4. LOCATION OF WELL (FOOTAGES): AT SURFACE: <b>2451' FNL, 1754' FEL</b>  AT TOP PRODUCING INTERVAL REPORTED BELOW: <b>2248' FNL, 1975' FEL</b>  AT TOTAL DEPTH: <b>2203' FNL, 2069' FEL</b>		9. API NUMBER: <b>4301352656</b>
10. FIELD AND POOL, OR WILDCAT: <b>Antelope Creek</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWNE 1 5S 4W U</b>
12. COUNTY: <b>Duchesne</b>		13. STATE: <b>UTAH</b>

14. DATE SPURRED: <b>4/15/2014</b>	15. DATE T.D. REACHED: <b>5/2/2014</b>	16. DATE COMPLETED: <b>7/15/2014</b>	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): <b>5,964' RKB</b>
18. TOTAL DEPTH: MD <b>7,940</b> TVD <b>7,922</b>	19. PLUG BACK T.D.: MD <b>7,102</b> TVD <b>7,084</b>	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) <b>ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot</b>	23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)
--	---

### 24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 J-55	75	0	73				0	Conductor
12.25	8.625 J-55	24	0	486		G 350	72	0	
7.875	5.5 J-55	15.5	0	6,613					
7.875	5.5 L-80	17	6,613	7,925		G 1,195	368	0	CBL

### 25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	6,652							

### 26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch	6,152	6,594	6,134	6,576	6,152 6,594	0.42	192	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) Basal Carbonate	5,949	6,066	5,931	6,048	5,949 6,066	0.42	76	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C) Green River	4,228	5,896	4,215	5,896	4,228 5,896	0.42	532	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

### 27. PERFORATION RECORD

### 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6,152'-6,594'	1,792 Bbls of Dyna LP 22 18# Gelled Fluid Containing 130,140#'s of 20/40 Mesh Sand.
5,949'-6,066'	828 Bbls of Dyna LP 22 18# Gelled Fluid Containing 50,020#'s of 20/40 Mesh Sand.
4,228'-5,896'	4,589 Bbls of Dyna LP 22 18# Gelled Fluid Containing 343,380#'s of 20/40 Mesh Sand.

29. ENCLOSED ATTACHMENTS:  <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input checked="" type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> DST REPORT <input checked="" type="checkbox"/> OTHER: <u>DOGM Form 7</u>	30. WELL STATUS:  <b>POW</b>
--	------------------------------------

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES:	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
7/15/2014	8/8/2014	24	→	68	82	45	Rod Pump
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	INTERVAL STATUS:
32/64	450	400	42.80	1	1,206	→	Open

## INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES:	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
			→				
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	INTERVAL STATUS:
						→	

## INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES:	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
			→				
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	INTERVAL STATUS:
						→	

## INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES:	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
			→				
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:	INTERVAL STATUS:
						→	

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used for Fuel

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Mahogany	2,790
				Garden Gulch	3,518
				B Marker	3,930
				X Marker	4,435
				Y Marker	4,466
				Douglas Creek	4,579
				B Lime	4,986
				Castle Peak	5,532
				Basal Carbonate	5,936
				Wasatch	6,212

## 35. ADDITIONAL REMARKS (Include plugging procedure)

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 10/27/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

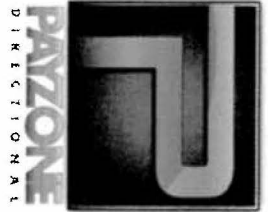
\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940





Job Number: UT141418  
 Company: Petroglyph  
 Lease/Well: Ute Tribal\_01-07-E4  
 Location: Sec. 1, T5S, R4W  
 Rig Name: Capstar #334  
 RKB: 5964'  
 G.L. or M.S.L.: GL\_5951'

State/Country: Utah/USA  
 Declination: 11.04  
 Grid: True  
 File name: C:\WINSERVE\UT141418.SVY  
 Date/Time: 02-May-14 / 06:03  
 Curve Name: Ute Tribal\_01-07-E4\_Actual

### Payzone Directional Services LLC

#### WINSERVE SURVEY CALCULATIONS Minimum Curvature Method Vertical Section Plane 310.00 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
535.00	.43	179.46	534.99	-2.01	.02	-1.30	2.01	179.46	.08
627.00	.26	290.84	626.99	-2.28	-.17	-1.33	2.28	184.34	.63
720.00	1.32	309.87	719.98	-1.52	-1.19	-.06	1.93	218.17	1.16
812.00	2.86	307.23	811.92	.55	-3.83	3.29	3.87	278.19	1.68
903.00	4.39	314.97	902.74	4.39	-8.11	9.03	9.22	298.42	1.76
994.00	5.30	317.40	993.41	9.94	-13.41	16.67	16.70	306.54	1.02
1085.00	5.80	312.33	1083.98	16.13	-19.66	25.43	25.43	309.37	.77
1176.00	5.76	310.62	1174.52	22.20	-26.52	34.59	34.59	309.93	.19
1268.00	5.45	310.18	1266.08	28.03	-33.37	43.57	43.57	310.03	.34
1359.00	5.54	316.59	1356.66	34.00	-39.69	52.26	52.26	310.59	.68
1450.00	5.10	313.65	1447.27	39.99	-45.63	60.66	60.67	311.23	.57
1542.00	4.70	310.40	1538.94	45.25	-51.46	68.51	68.53	311.33	.53

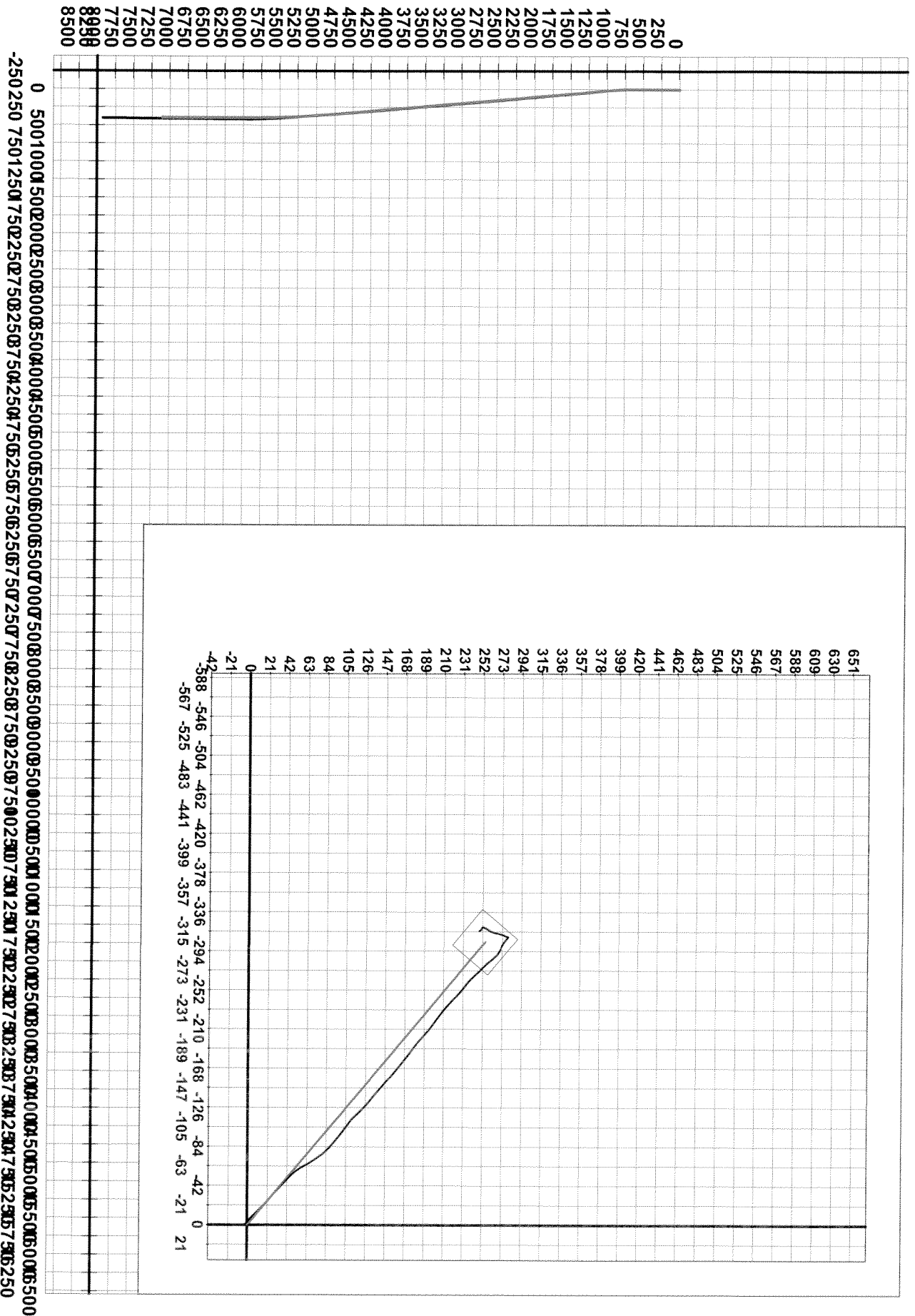
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S		E-W		Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
				FT	FT	FT	FT		Distance FT	Direction Deg	
1633.00	5.00	322.70	1629.61	50.82	-56.70	-80.98	117.45	76.11	76.15	311.87	1.19
1724.00	5.10	330.60	1720.26	57.50	-61.09	-87.43	126.01	83.76	83.90	313.27	.77
1815.00	5.80	330.00	1810.85	65.01	-65.38	-93.92	134.41	91.87	92.20	314.84	.77
1907.00	5.60	325.90	1902.39	72.75	-70.22	-100.14	142.42	100.55	101.11	316.02	.49
1998.00	5.20	323.50	1992.99	79.74	-75.16	-105.80	149.37	108.83	109.58	316.69	.50
2090.00	5.70	313.10	2084.58	86.22	-80.98	-80.98	117.45	118.28	118.28	316.80	1.20
2181.00	5.10	308.80	2175.17	91.84	-87.43	-87.43	126.01	126.01	126.80	316.41	.79
2272.00	5.50	310.00	2265.78	97.18	-93.92	-93.92	134.41	134.41	135.15	315.98	.46
2363.00	4.60	307.90	2356.43	102.22	-100.14	-100.14	142.42	142.42	143.10	315.59	1.01
2455.00	4.10	303.40	2448.16	106.30	-105.80	-105.80	149.37	149.37	149.97	315.14	.66
2546.00	5.40	310.40	2538.85	110.86	-111.77	-111.77	156.89	156.89	157.43	314.77	1.56
2637.00	5.70	317.00	2629.42	116.94	-118.12	-118.12	165.65	165.65	166.22	314.71	.77
2729.00	5.10	315.60	2721.01	123.21	-124.09	-124.09	174.26	174.26	174.87	314.79	.67
2820.00	4.50	310.20	2811.70	128.40	-129.65	-129.65	181.85	181.85	182.47	314.72	.82
2911.00	4.48	308.73	2902.42	132.93	-135.15	-135.15	188.98	188.98	189.57	314.53	.13
3003.00	5.01	311.32	2994.10	137.83	-140.97	-140.97	196.58	196.58	197.15	314.35	.62
3094.00	4.70	308.29	3084.77	142.76	-146.88	-146.88	204.28	204.28	204.83	314.19	.44
3185.00	5.58	313.91	3175.41	148.14	-152.99	-152.99	212.42	212.42	212.96	314.08	1.11
3277.00	5.45	312.64	3266.98	154.20	-159.43	-159.43	221.25	221.25	221.80	314.05	.19
3368.00	5.01	309.65	3357.60	159.67	-165.67	-165.67	229.54	229.54	230.09	313.94	.57
3459.00	4.57	306.31	3448.29	164.35	-171.65	-171.65	237.13	237.13	237.64	313.76	.57
3551.00	5.14	309.56	3539.96	169.14	-177.78	-177.78	244.91	244.91	245.39	313.57	.69
3642.00	4.83	307.28	3630.61	174.06	-183.97	-183.97	252.81	252.81	253.26	313.41	.40
3733.00	4.22	303.54	3721.33	178.23	-189.81	-189.81	259.97	259.97	260.37	313.20	.74
3824.00	4.83	310.62	3812.04	182.57	-195.51	-195.51	267.13	267.13	267.50	313.04	.91
3916.00	5.84	313.03	3903.64	188.29	-201.87	-201.87	275.67	275.67	276.05	313.01	1.12
4007.00	5.30	310.10	3994.21	194.16	-208.47	-208.47	284.50	284.50	284.88	312.96	.67
4098.00	4.60	305.20	4084.87	198.97	-214.67	-214.67	292.34	292.34	292.69	312.83	.90
4190.00	5.00	306.10	4176.55	203.46	-220.92	-220.92	300.01	300.01	300.33	312.64	.44
4281.00	4.90	308.80	4267.21	208.23	-227.15	-227.15	307.86	307.86	308.15	312.51	.28
4372.00	5.50	308.20	4357.84	213.36	-233.61	-233.61	316.10	316.10	316.38	312.41	.66
4464.00	4.50	317.10	4449.49	218.73	-239.53	-239.53	324.09	324.09	324.37	312.40	1.37
4555.00	4.00	312.50	4540.24	223.49	-244.30	-244.30	330.80	330.80	331.11	312.45	.66
4646.00	4.80	310.60	4630.97	228.11	-249.53	-249.53	337.78	337.78	338.09	312.43	.89

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S		E-W		Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
				FT		FT			Distance FT	Direction Deg	
4738.00	4.40	307.70	4722.67	232.78		-255.25		345.16	345.45	312.36	.50
4829.00	4.70	308.70	4813.39	237.24		-260.92		352.37	352.65	312.28	.34
4920.00	4.30	320.42	4904.11	242.20		-266.00		359.45	359.75	312.32	1.10
5012.00	3.70	317.60	4995.88	247.05		-270.20		365.79	366.12	312.44	.69
5103.00	4.40	312.30	5086.65	251.57		-274.76		372.19	372.54	312.48	.87
5194.00	5.23	318.13	5177.33	257.01		-280.11		379.78	380.15	312.54	1.06
5286.00	4.92	324.40	5268.97	263.34		-285.21		387.75	388.19	312.72	.69
5377.00	4.04	309.87	5359.70	268.57		-289.94		394.74	395.21	312.81	1.57
5468.00	3.43	286.27	5450.51	271.38		-295.02		400.44	400.85	312.61	1.80
5560.00	2.60	298.60	5542.38	273.15		-299.49		405.00	405.35	312.37	1.14
5651.00	2.55	300.82	5633.29	275.18		-303.04		409.02	409.34	312.24	.12
5742.00	2.55	315.05	5724.20	277.65		-306.21		413.04	413.34	312.20	.69
5834.00	1.27	306.22	5816.15	279.70		-308.48		416.10	416.40	312.20	1.42
5925.00	.48	177.42	5907.14	279.92		-309.27		416.84	417.14	312.15	1.77
6017.00	.70	200.05	5999.14	279.00		-309.45		416.39	416.65	312.04	.34
6108.00	.97	197.06	6090.13	277.74		-309.87		415.90	416.12	311.87	.30
6199.00	.97	203.43	6181.11	276.30		-310.40		415.38	415.56	311.67	.12
6290.00	.88	200.31	6272.10	274.94		-310.95		414.93	415.07	311.48	.11
6382.00	1.10	198.64	6364.09	273.44		-311.47		414.37	414.47	311.28	.24
6473.00	1.11	205.82	6455.07	271.82		-312.14		413.83	413.90	311.05	.15
6564.00	1.26	185.39	6546.05	270.03		-312.62		413.05	413.09	310.82	.49
6656.00	1.28	191.09	6638.03	268.01		-312.91		411.98	412.00	310.58	.14
6747.00	1.05	196.20	6729.01	266.22		-313.34		411.15	411.16	310.35	.28
6838.00	1.05	197.56	6820.00	264.62		-313.82		410.49	410.50	310.14	.03
6929.00	1.22	201.90	6910.98	262.93		-314.43		409.88	409.88	309.90	.21
7021.00	1.23	199.61	7002.96	261.09		-315.13		409.23	409.23	309.64	.05
7112.00	1.40	209.19	7093.93	259.20		-316.00		408.68	408.70	309.36	.30
7203.00	1.41	214.16	7184.91	257.30		-317.17		408.36	408.41	309.05	.13
7294.00	1.32	212.87	7275.88	255.50		-318.37		408.11	408.21	308.75	.10
7386.00	1.45	208.93	7367.85	253.59		-319.50		407.76	407.91	308.44	.18
7477.00	.75	133.56	7458.84	252.17		-319.63		406.94	407.13	308.27	1.60
7569.00	.75	110.97	7550.83	251.54		-318.63		405.77	405.95	308.29	.32
7660.00	.75	122.97	7641.82	251.00		-317.57		404.62	404.79	308.32	.17
7751.00	.75	133.08	7732.82	250.27		-316.64		403.43	403.61	308.32	.15

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
7842.00	.75	154.26	7823.81	249.33	-315.95	402.29	402.48	308.28	.30
<b>TD</b>									
7876.00	.79	153.42	7857.81	248.92	-315.74	401.88	402.06	308.25	.12
<b>TD Projection to Bit</b>									
7940.00	.79	153.42	7921.80	248.13	-315.35	401.07	401.27	308.20	.00

Job Number: UT141418  
Company: Petroglyph  
Lease/Well: Ute Tribal 01-07-E4  
Location: Sec. 1, T5S, R4W  
Rig Name: Capstar #334  
State/Country: Utah/USA

Declination: 11.04





STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 7

## REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ute Tribal 01-07-E4API number: 4301352656Well Location: QQ SWNE Section 1 Township 5S Range 4W County DuchesneWell operator: Petroglyph Operating Company, Inc.Address: P.O. Box 607city Roosevelt state UT zip 84066Phone: (435) 722-2531Drilling contractor: ProPetro ServicesAddress: 1422 East 1500 Southcity Vernal state UT zip 84078Phone: (435) 789-1735

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	486	0	No Water Encountered

Formation tops: 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_  
(Top to Bottom) 4 \_\_\_\_\_ 5 \_\_\_\_\_ 6 \_\_\_\_\_  
7 \_\_\_\_\_ 8 \_\_\_\_\_ 9 \_\_\_\_\_  
10 \_\_\_\_\_ 11 \_\_\_\_\_ 12 \_\_\_\_\_

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 4/18/2014